

ONE LAB FOR

MOLECULAR GENETICS FLOW CYTOMETRY ARRAY CGH FISH TUMOR GENOTYPING HISTOLOGY MORPHOLOGY CLINICAL

GenPath Oncology Directory of Services

2014 EDITION



GenPath

DIRECTORY OF SERVICES 2014



A Business Unit of BioReference Laboratories

481 Edward H. Ross Drive Elmwood Park, New Jersey 07407

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Visit our website at: www.genpath.com



SECTION 1

CONTENTS

Letter from Chief Medical Officer	3
Medical and Scientific Staff	4
Laboratory Operations and Service	4
How to Contact Us	5
Supplies	6
Specimen Preparation	13
Specimen Submission Criteria	13
Cytology Directions	15
Pathology, Anatomic (Biopsies and Surgical Specimens)	16
Specimen Quality and Rejection	17
Connectivity Solutions	18
Test Addition After Submission	22
AMA Disease-Specific Panels	
Approved For Government Health Plans	
Branded Reports	25
Billing Policies and Insurance Coverage	27
General Billing Information	28
List of Insurances for which Bioreference Submits Claims	29
Licenses and Regulatory Information	41
How To Use The Test Directory	42
SECTION 2 - TEST DIRECTORY	
Laboratory Tests in Alphabetical Order	A1
INDEX	
Laboratory Tests By Test Name	R1_ R5
Laboratory Tests By Test Code	
Laboratory rests by rest Code	DO



LETTER FROM CHIEF MEDICAL OFFICER

Dear Valued Client,

Welcome to the GenPath Oncology Directory of Services for 2014. This directory provides important information that will assist in the test ordering process, including test description and code, clinical indication, and specimen requirements.

Our Directory of Services equips you with information on how to contact us, including phone, fax, and e-mail addresses of respective groups in our organization. We also provide you with information on how to effectively work with us, samples of our branded reports, and a background of our billing policies. Please feel free to browse our alphabetical test listing, which includes information on how to submit your specimens for processing, testing methodologies, CPT codes, and clinical indications.

GenPath Oncology is a specialized cancer laboratory serving the needs of physicians and patients across the United States. We provide specialized testing services in the following areas: Anatomic and Clinical Pathology, Cytopathology, Dermatopathology, Hematopathology, and Molecular Pathology. If you are unable to find information on a respective test in our Directory of Services, please do not hesitate to call our Customer Service Department at (800) 627–1479.

On behalf of all the committed members of GenPath, I look forward to providing your patients with unmatched diagnostic services.

Best Regards,

James Weisberger, MD

Chief Medical Officer



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HOW TO CONTACT US

ph:	(800) 627-1479
fax:	(201) 791-1941
ph:	(800) 627-1479 Press 1
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ph:	(800) 627-1479 Press 1
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fax:	(201) 791-3810
e-mai	il: info@genpathdiagnostics.com
	ph: fax: ph: fax: ph: fax: ph: fax:



SUPPLIES

IMPORTANT REGULATORY NOTICE

The Federal Government, through the Centers for Medicare and Medicaid Services ("CMS"), has advised that laboratories may provide items, devices, or supplies if they can be used only to collect, transport, process, or store specimens. If any of these items, devices, or supplies may be used for purposes other than collection, transportation, processing, or storage of specimens, the laboratory may not provide them free of charge. Among the items specifically prohibited by CMS are **gloves**. With regard to those items that are permitted, such as specimen collection devices (tubes, vials, etc.), needles, tourniquets, needle disposal containers, and refrigerators used solely for the storage of specimens, the laboratory may only provide an amount that is reasonably related to the number of specimens referred to the laboratory by the healthcare provider.

New York State law further restricts the types and quantities of supplies that laboratories may offer to healthcare providers. New York permits laboratories to provide, at no charge, only those items, devices or supplies that do not have any generally accepted use in healthcare practices other than to collect, transport, process, or store specimens. Further, these regulations specifically prohibit additional items, such as **adhesive bandages**, **alcohol prep pads**, **gauze pads**, **etc**. Laboratories must provide permitted supplies, items, and devices of a size, type, and quantity reasonably related to the type and number of specimens being referred by the healthcare provider to the clinical laboratory.

Supplies and containers for our laboratory services are provided at no additional charge. These include all blood collection tubes, needles, needle holders, slides, preservative solutions, cytology fixative, and transport boxes and containers specific to the testing type.

Supply request forms are available from the lab and should be used to request needed items. Please allow two to three days for delivery of your supplies.



SWABS, VIALS, AND CONTAINERS



Sterile Container (Item #8406):

Plastic wide-mouthed, 5-ounce sterile container with graduated measure indicator on side. Supplied with cap. Use for any culture specimen (with the exception of urine and stool cultures).



Viral Culturette (Item #5493):

Sterile swab in transport media. Use for routine aerobic culturettes from all sites. (Squeeze ampule to wet swab with transport media).



Aptima Swabs (Item #20671):

Used for Chlamydia and Gonorrhea testing (replaces older PACE swabs).



JEMBEC Plate (Item #1093):

Plastic compact container with chocolate agar. Use for Gonorrhea cultures.



Parasitology Kit - Ova and Parasite Collection Vials (Item #20452):

Two plastic vials containing PVA and formalin preservative. Inform patient of the importance of the proper sample volume.



Urinalysis Tube (Item #10100):

Plastic vial with graduated measurement indicator and yellow cap. Stabilizing preservative added (note: may be tablet or coated tube).

DO NOT USE FOR URINE CULTURES.



Urine Container, for 24-hour Urine Collection:

64-ounce plastic container with handle.

Must specify: No Preservative (Item #8824), HCL (Item #34007), Boric Acid (Item #34006) or Acetic Acid (Item #34020).



GenProbe Urine Collection (Item #20670):

Plastic vial with white screw cap. Bacteriostatic preservative present. Use for Chlamydia and Gonorrhea testing.

DO NOT USE FOR ROUTINE URINALYSIS.



EVACUATED TUBES



Light Blue Top (Item #12695):

Sodium citrate as anticoagulant. Available in 2.7-mL size. This is a siliconized tube containing a citrate solution which is specific for Prothrombin Time and other coagulation tests.



Green Top:

Sodium or Ammonium Heparin as anticoagulant. Available in 3-mL (Item #3070) and 6-mL sizes (Item #3051).



Grey Top (Item #3172):

Potassium Oxalate as an anticoagulant. Sodium Fluoride as preservative. Available in 6-mL size.



Lavender Top:

EDTA as anticoagulant. Avoid exposure to extreme hot or cold temperatures. Available in 3-mL (Item #7291) and 4-mL sizes (Item #6089). Also available in microtainer sizes for capillary collections.



Fresh Tissue Container (Item #13638):

One can use these disposable culture tubes for most routine laboratory procedures.



Red Top, Plain:

Red stopper. No additive. Available in 3-mL (Item #3039) and 10-mL sizes (Item #17483). This tube is used for tests where gel separator is not desirable such as therapeutic drug monitoring. There is no need to centrifuge this tube as it will not remain separated during transport.



SST with Clot Activator (Item #6088):

This tube is the normal Serum Separator Tube. Please follow these instructions when using the Barrier Tube or the SST Tube with Clot Activator in order to obtain the most accurate test results:

- 1. Collect blood specimen using the usual venipuncture technique. Fill tube completely.
- 2. Gently invert barrier tube 5 times to mix clot activator with blood.
- 3. Allow blood to clot for 30 minutes.
- 4. Centrifuge at High Speed for 15 minutes.
- 5. Remove from centrifuge. Barrier will have formed, separating cells from serum. All of the separation gel should have moved from the bottom of the tube to form a barrier layer.
- 6. The sample is now ready to be transported to the laboratory. Do not remove stopper.



KITS



Circulating Tumor Cells Kit (Item #23763):

Includes a CellSave tube that is used to help oncologists in assessing the prognosis of patients with breast, colorectal, or prostate cancer.



Frozen Coagulation Kit (Item #33042):

Used in the diagnosis of acquired or inherited disorders of the coagulation system.



Hospital Collection Kit (Item #33029):

Includes EDTA, heparin, RPMI tubes, slide carrier, and two blocks.



Bone Marrow Collection Kit (Item #33025):

Includes two heparin tubes, an EDTA tube, two slide carriers, and two formalin jars (core & clot).



Unfrozen Coagulation Kit (Item #33041):

Used in the diagnosis of acquired or inherited disorders of the coagulation system.



Fine Need Aspiration Collection Kit (Item #17515):

Includes two slide carriers each containing five slides, two alcohol filled slide holders and a CytoLyt tube.





RPMI Media (Item #G107):

Used for the culture of human normal and neoplastic leukocytes.



Buffered Formalin (Item # Upon Request)

Traditional fixative, buffered to a neutral pH.



ThinPrep Cytolyt
Collection Cup (Item #18482):

Cellwash and transport buffer for use with the ThinPrep system.

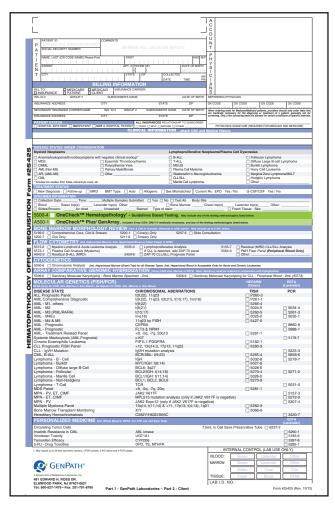


Reagent Alcohol 50% (Item #8070):

For Fine Needle Aspirations.



REQUISITION FORMS

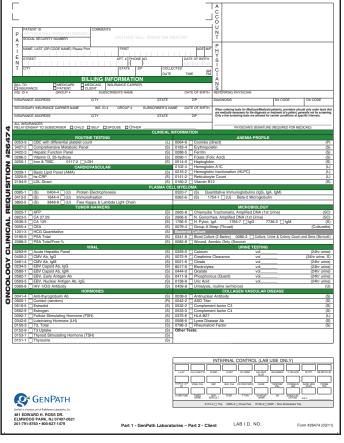


Hematopathology Office Requisition (Item # 25425)

The Office Requisition is used to order testing for blood-borne cancers.

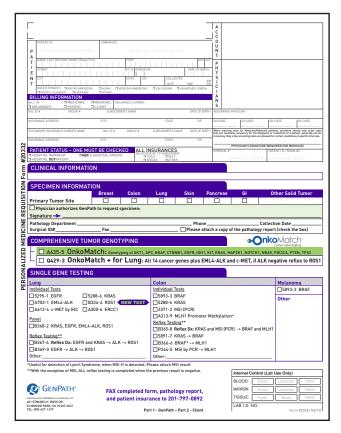


The Oncology Clinical Requisition is used to order routine tests necessary for the management of a cancer patient.





REQUISITION FORMS

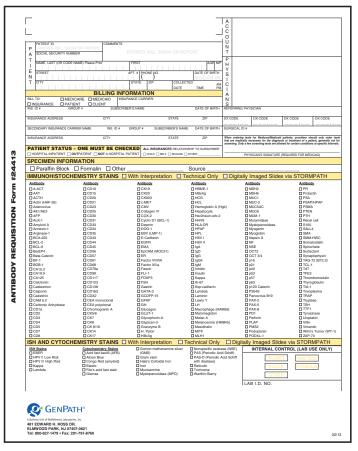


Personalized Medicine Requisition (Item # 20332)

The Personalized Medicine Requisition is used to order molecular testing specific to solid tumors.

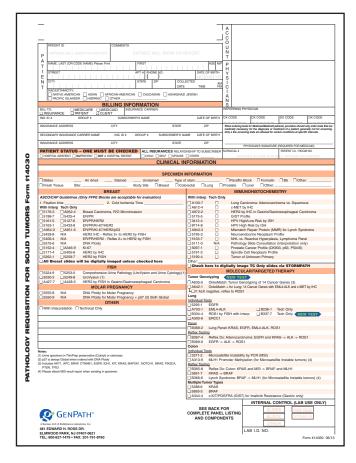
Antibody Requisition (Item # 24413)

The Antibody Requisition is used by a pathologist to assist in the diagnosis of various cancers.





REQUISITION FORMS

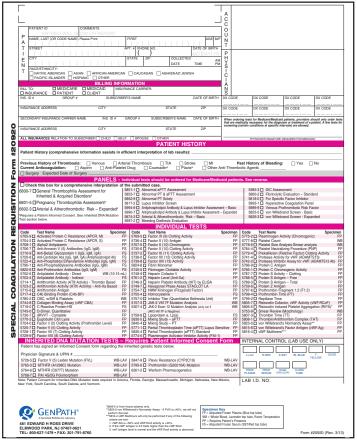


Solid Tumor Requisition (Item # 14030) The Solid Tumor Requisition is used by

The Solid Tumor Requisition is used by a pathologist primarily to assist in the diagnosis of solid tumors.

Special Coagulation Requisition (Item # 20920)

The Special Coagulation Requisition is used to order diagnostic testing for acquired or inherited disorders of the coagulation system.





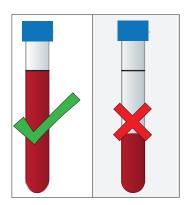
SPECIMEN PREPARATION

SPECIMEN LABELING

ALL SPECIMENS MAY BE POTENTIALLY INFECTIOUS MATERIAL AND SHOULD BE HANDLED, LABELED, AND TRANSPORTED ACCORDINGLY.

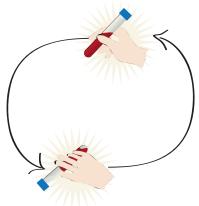
It is essential that the following instructions be followed exactly to assure delivery of a specimen that is adequate for testing. All specimens must be properly identified by using a minimum of two identifiers that must include the patient's name and at least one of the following: date of birth, chart number or a unique identifier. Also, the phlebotomist must initial all specimen containers submitted. The test request form must be completed and include the time and date of the specimen collection, as well as the signature of the physician, or other legally-authorized person requesting the patient's tests.

PROPER PHLEBOTOMY TECHNIQUES



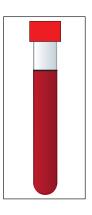
1. Fill tubes to capacity required level

Always make sure to collect enough specimen.



2. Mix gently

Immediately following collection, all plastic tubes require mixing. Gently invert all tubes eight (8) times, except Light Blue Tubes (invert 4 times).



3. Separate

Do not use Gel Tubes (Red/Black SST®) for toxicology or therapeutic drug testing.

SPECIMEN SUBMISSION CRITERIA

Blood

When whole blood is requested, obtain the full amount in a vacuum tube as shown in the Specimen Preparation section of this Directory of Services.

Lavender, Grey, Green, Yellow, Tan, and Royal Blue Top tubes contain different anticoagulants that inhibit blood coagulation. When drawing these specimens, immediately invert the tube 8-10 times. Invert Light Blue Top Tubes 3-4 times. **Do not shake the tube, as this can cause hemolysis.**



Serum

Obtain sufficient blood to yield the required volume of serum. A plain Red Top tube or Red/ Speckled Top Barrier Gel Tube (SST) should be used. (Refer to Test Section for details.)

When drawing these specimens, immediately invert the tube eight (8) times. Allow the blood to clot for no more than 30 minutes and centrifuge for 15 minutes to separate the serum at 3135-3465 rpms (4500-5000 rpms for coagulation testing). If a Barrier Gel Tube is used, no other manipulations are required. Make sure that the gel has formed a thick, solid, intact barrier between the serum and the clotted cells. If the gel trails into the bottom of the tube, re-centrifuge the tube for another 10 minutes. If a plain Red Top Tube is used, transfer the serum with a pipette to a Transfer Tube. It is important to avoid hemolysis. Serum in contact with red cells will produce erroneously high Potassium, LD, AST, and ALT results and erroneously low Glucose results. Label Transfer Tube with patient's full name, identifiers and specimen type (e.g. serum, plasma, etc).

Plasma

When processing plasma, follow the instructions for each test.

Urine

Urinalysis: To adequately test urine specimens the sample should be collected in a tube with a stabilizing chemical present. The tube provided contains a **yellow** "pop off" cap and a "Stabilur®" tablet or coated tube that preserves the formed elements such as red cells, white cells, casts, and epithelial cells. For urinalysis, use a paper cup and transfer about 10 mL of urine to the tube and replace cap.

Urine Chemistry: Some assays require a 24-hour collection that may contain boric acid, hydrochloric acid, or sodium carbonate as a preservative. Some analyses require a urine specimen without any additive. **Refer to the specific test in this Directory of Services for specific test details.** Instruct the patient to discard the first urine voided upon arising in the morning and thereafter collect all urine specimens in a paper cup and transfer to the 24-hour container, including the first morning voiding of the following day. A normal intake of fluid is recommended. Measure the 24-hour volume and record it on the container and the test request form. Keep the specimen refrigerated until picked up by the laboratory.

Urine Chemistry tests that do not require a 24-hour collection container and can be submitted in a sterile cup; please keep refrigerated.

Frozen Specimens

Certain tests must be submitted frozen because of the viability of the analyte being tested. Keep all frozen specimens separate from the routine tests and submit a separate test request form. As soon as possible, separate the serum or plasma and transfer to a plastic transfer tube. Place the specimen in the office freezer and keep until it is solid. **Notify the Transportation Department as soon as possible that you have a frozen specimen for pick up.**

PLEASE STORE YOUR SPECIMEN IN THE FREEZER UNTIL PICK UP, UNLESS SPECIFICALLY INSTRUCTED TO DO OTHERWISE.



CYTOLOGY DIRECTIONS

Aspiration Biopsy by Fine Needle (FNA)

- 1. Solid masses: Do direct smears and spray with cytology spray fixative immediately.
- 2. Fluids: Add directly to fixative supplied in special container.

Method for Obtaining an Optimum Fine Needle Aspiration Specimen:

A high percentage of smears are difficult, and sometimes impossible to accurately diagnose. This difficulty is primarily due to poorly preserved cellular material or a lack of adequate cellular material. Poorly preserved material is usually due to a delay in fixing the smears or spraying them too closely with the fixative and freezing the material. A lack of adequate cells is generally the result of a hypocellular cystic fluid spread too thinly over the slide.

Direct Smears

- 1. Write patient's name with lead pencil on frosted end of clean slide.
- 2. Spread material evenly over slide.
- 3. Fix immediately with cytology spray fixative from a distance of 10 to 12 inches until liquid droplets form.
- 4. Allow slide to dry before sending it out in designated slide holder.

Fluids (Collected or Aspirated)

- 1. Write patient's name on container.
- 2. All fluids, including bronchial washings, pleural, and peritoneal (ascitic) fluids, have to be placed in a container with an equal volume of 50% ethyl alcohol.
- 3. Send fluid immediately in securely closed containers.

NOTE: A sputum specimen will be considered unsatisfactory for diagnosis if no pigmented macrophages (dust cells) are present.

Gastrointestinal Tract Washings

- 1. Collect fasting specimen and transfer to a labeled container.
- 2. Rapidly inject 300 mL of normal saline.
- 3. Aspirate as much as possible of the injected saline and transfer to another labeled container.
- 4. If possible, repeat steps "2" and "3" with patient in different positions.
- 5. Specimens may be pooled or collected separately in containers of 95% ethyl alcohol.
- 6. Send immediately to lab.

NOTE: A Gastrointestinal Tract Washing specimen will be considered unsatisfactory if it is not representative of the anatomic site or the slides are broken beyond repair.

Urine for Cytology

- 1. Specimen can be randomly collected.
- 2. Female patients should be instructed to wash their genitalia with soap and water prior to collection.
- 3. Have the patient void into a paper cup and transfer to a container with 50% ethyl alcohol.
- 4. Send immediately to the laboratory in a securely closed container.



NOTE: INCLUDE PATIENT AGE AND PERTINENT CLINICAL DATA ON THE REQUEST FORM.

If there are any questions about specimen collection, or if you need to order the container of fixative, call our Customer Service Department at (800) 627-1479.

PATHOLOGY, ANATOMIC (BIOPSIES AND SURGICAL SPECIMENS)

General Instructions

- 1. Use Surgical Pathology requisition form for all biopsies and surgical specimens. Relevant clinical information should be written down in the spaces provided.
- 2. Write patient's name on specimen container.
- 3. Place all tissues immediately in 10% buffered formalin at 10 times the volume of the specimen. Specimen containers with 10% formalin are provided by the laboratory.
- 4. Send immediately to the laboratory in a securely closed container. For additional information, please contact Customer Service.

NOTE: CPT Codes shown with tests are to be used as guidelines only and may be subject to change. Their accuracy is neither expressed nor implied in this compendium. Please consult the AMA CPT Code Book for further information.



SPECIMEN QUALITY AND REJECTION

Hemolysis

Some analytes may be reported erroneously if the serum is not promptly removed from the clot, or if the Barrier Gel Tube is not centrifuged after the clot has formed. Major discrepancies are low Glucose, high Potassium and LDH. Hemolyzed hematological specimens are unsuitable for testing.

Inadequate Draw or Quantity Not Sufficient (QNS)

Most tests that require anticoagulated specimens require that a full tube of blood be obtained. This is because there is a defined quantity of anticoagulant in each tube and the ratio of anticoagulant to the blood volume has to be exact to ensure quality results. Particularly important are Light Blue Top Tubes used for coagulation tests. For Prothrombin Times, Activated Partial Thromboplastin Times, and Fibrinogen determinations, blood must fill the tube to the fill line.

For CBCs, a "short draw" Lavender Top Tube will result in red cell crenation, reduced MCV and Hematocrit, and possible changes in leukocyte morphology, platelets, and total leukocyte counts.

QNS may also be seen when an inadequate volume of serum or plasma is submitted for the number of tests requested.

Clotted Specimens

All hematological testing utilizes anticoagulated blood. For blood counts, a Lavender Top Tube containing the anticoagulant EDTA is required. All specimens should be collected and the tube filled to the limit of the vacuum. Clotted samples, either macroscopic or microscopic in nature, cannot be processed for CBC testing, as such results will produce false leukopenia, low red cell counts, and aberrant red cell indices. As the equipment used to test blood counts incorporates a clot detector, it is occasionally possible that specimens that appear macroscopically normal will have small microscopic clots that are detected and that will produce incorrect results. Similarly, small clots found in Blue Top Tubes (for coagulation tests) will result in falsely-prolonged PT and PTT test results.

Old Specimens

Blood specimens older than 24 hours cannot be adequately tested for some analytes. Particularly sensitive are most Hematology tests, including coagulation procedures.

Poor Cell Preservation

Blood cells, particularly leukocytes, become fragile and can be distorted morphologically if the specimen is older than 24 hours. In such situations, a reliable differential white cell count cannot be carried out.

Test Not Performed (TNP)

TNP may be reported for one or more of the tests requested. This "result" is entered when a test cannot be performed on the submitted specimen (e.g. wrong tube, duplicate order, no longer stable, etc).



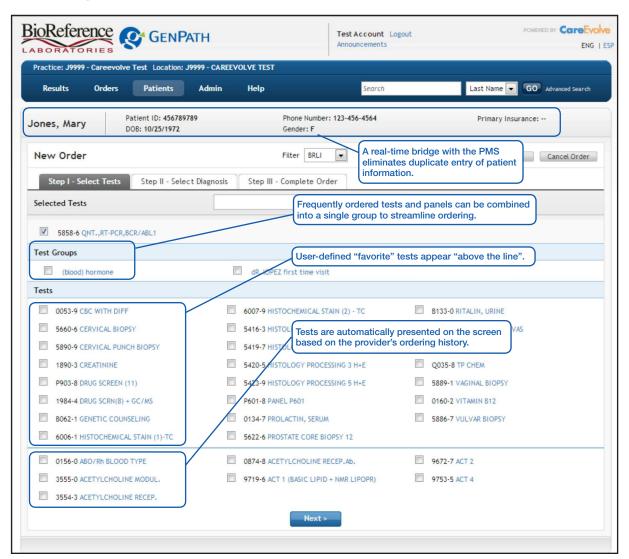
CONNECTIVITY SOLUTIONS

CareEvolve

We offer many options for results reporting to physicians that include courier delivery of hard copies, report printers, structured HL7 results interface to EMRs, HL7 data to a repository via secure transfer, and our web-based electronic order and reporting system, CareEvolve.

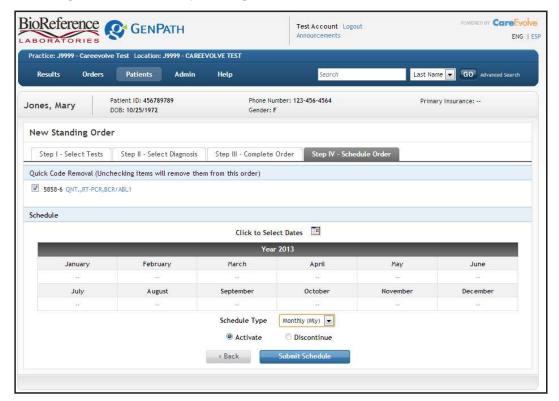
CareEvolve offers Computerized Provider Order Entry (CPOE) and secure access to lab results via the Internet.

Order Entry

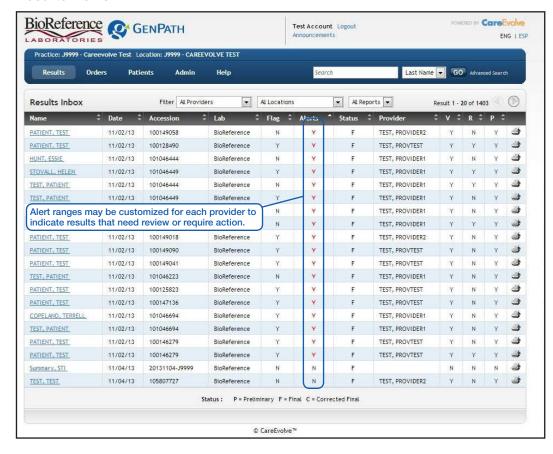




Standing Orders are easily managed in CareEvolve



Results Review



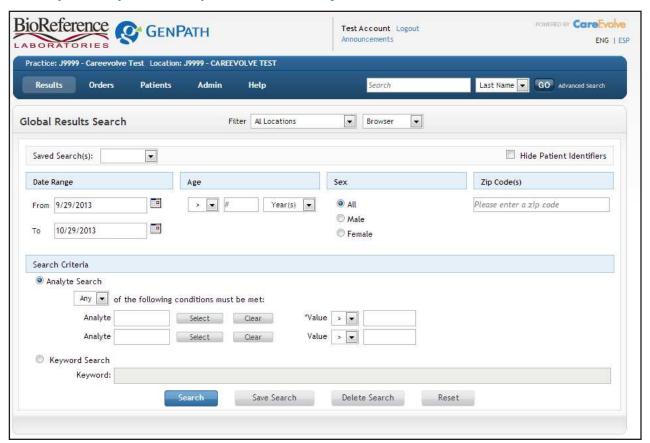
If providers prefer to review results on paper, reports can be printed automatically upon sample completion or at pre-scheduled intervals.



CareEvolve is browser independent and the touch-optimized software is easy to use on smart phones and tablets, as well as desktops.



CareEvolve provides a Global Results Search function with the capability to screen results and to perform patient and practice-wide analytics.





The system also includes customized cumulative reporting, which allows the provider to select the tests to trend over a designated time period. The graphed reports are automatically generated and give the provider both historic and current test results at a glance, eliminating the need to search through past results to see how current results compare.

CareEvolve Online Clinical Trended Report

Gamma Glob. (SPEP) Ref Range: 0.70 - 1.90 g/dL Time Period: All





STORMPATH is GenPath's web-enabled digital pathology service that provides pathologists with a comprehensive service to interpret the technical component of esoteric testing. Through STORMPATH, pathologists can order new tests, analyze results and create patient reports efficiently. Our STORMPATH test menu includes:

- FISH: Interpret clear probe signals for hematological malignancies and solid tumors
- Flow Cytometry: Interpret a complete library of cell surface markers
- Breast IHC Markers: Quantify key markers such as ER, PgR, HER2, Ki-67 and p53
- UroVysion: Utilize FISH for bladder cancer assessment
- Digital Slide Imaging: Digitally view more than 220 antibodies clearly
- Surgical Biopsies: Provide custom reports for GI, GU, Derm and Prostate
- Cytology: Create custom reports for cytological specimens in women's health



TEST ADDITION AFTER SUBMISSION

Our Customer Service department can arrange for additional testing if the specimen is stable and the volume is adequate after your requested tests have been completed. We are required by Federal mandates to ask for written or electronic authorization for every test we perform. You will receive a request for written confirmation for verbal requests via hard copy reporting or by fax. The physician or authorized employee must sign and return this written confirmation.

		A Special cod Bio Reference Luboratory
GENPATH ACCESSION NUMBER		
	FAX	7
CHANG		A AUTHORIZATION
ACCOUNT NAME: PATIENT NAME:	ACCOUNT #	
DATE: Click here to enter a date.	FAXED	BY:
FAX:		
Submitted Specimens:		Please Sign and Fax back to
Cytology		201-345-7152
Slide(s)		ALL testing is on HOLD until
☑ Urine(s)		authorization is signed. and
Other:		_
Dear:		returned.
The following additional tests have	been ADDED to those requ	uested for the patient:
	R	leason(s):
		erson spoke with:
		itle:
The following tests have been DE	LETED from those requested	d for the patient:
	Re	eason(s)
		Quantity Not Sufficient
		Inappropriate specimen
		Other
PLEASE SIGN BELOW:		
	testing	
I authorized the above changes in		
I authorized the above changes in		



AMA DISEASE-SPECIFIC PANELS APPROVED FOR GOVERNMENT HEALTH PLANS

Code	Profile			
3283-9	Acute Hepatitis Panel			
	Hepatitis A Antibody (HA Ab), IgM (86709)			
	Hepatitis B Core Antibody (HBcAb), IgM Antibody (86705)			
	Hepatitis B Surface Antigen (HBsAg) (87340)			
	Hepatitis C Antibody (86803)			
2555-1	Basic Metabolic Panel			
	Calcium, Total (82310)			
	Carbon Dioxide (Bicarbonate) (82374)			
	Chloride (82565)			
	Creatinine (82565)			
	Glucose, Serum (82947)			
	Ionized Calcium (82330)			
	Potassium (84132)			
	Sodium (84295)			
	Blood Urea Nitrogen (BUN) (84520)			
3427-2	Comprehensive Metabolic Panel			
	Albumin (82040)			
	Bilirubin, Total (82247)			
	Calcium, Total (82310)			
	Carbon Dioxide (Bicarbonate) (82374)			
	Chloride (82565)			
	Creatinine (82565)			
	Glucose (82947)			
	Phosphatase, Alkaline (84075)			
	Potassium, Serum (84132)			



Protein, Total (84155)

Sodium, Serum (84295)

Transferase, Alanine Amino (ALT) (SGPT) (84460)

Transferase, Aspartate Amino (AST) (SGOT) (84450)

Blood Urea Nitrogen (BUN) (84520)

0002-6 Electrolytes Panel

Carbon Dioxide (Bicarbonate) (82374)

Chloride, Blood (82435)

Potassium, Serum (84132)

Sodium, Serum (84295)

3422-3 Hepatic Function Panel/Liver Panel

Albumin (82040)

Bilirubin, Total (82247)

Bilirubin, Direct (82248)

Alkaline Phosphatase (84075)

Protein, Total (84155)

Transferase, Alanine Amino (ALT) (SGPT) (84460)

Transferase, Aspartate Amino (AST) (SGOT) (8440)

3284-7 Renal Function Panel

Albumin (82040)

Calcium, Total (82310)

Carbon Dioxide (Bicarbonate) (82374)

Chloride (82435)

Creatinine (82565)

Glucose (82947)

Phosphorus, Inorganic (Phosphate) (84100)

Potassium, Serum (84132)

Sodium, Serum (84295)

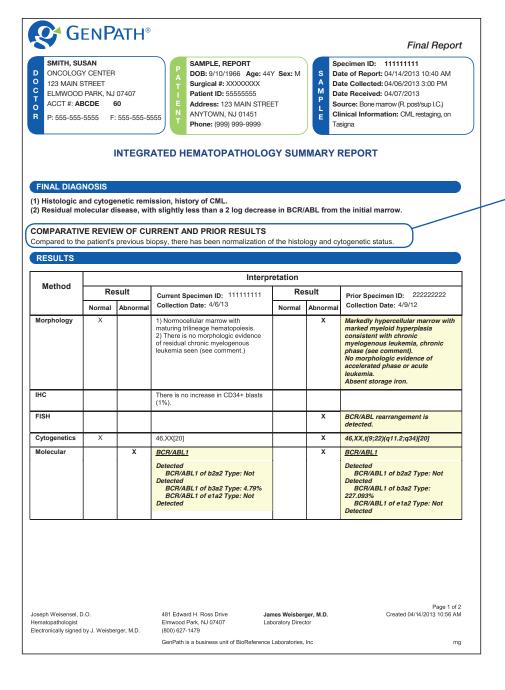
Blood Urea Nitrogen (BUN) (84520)



BRANDED REPORTS

GenPath reports provide easy-to-read information, which may include:

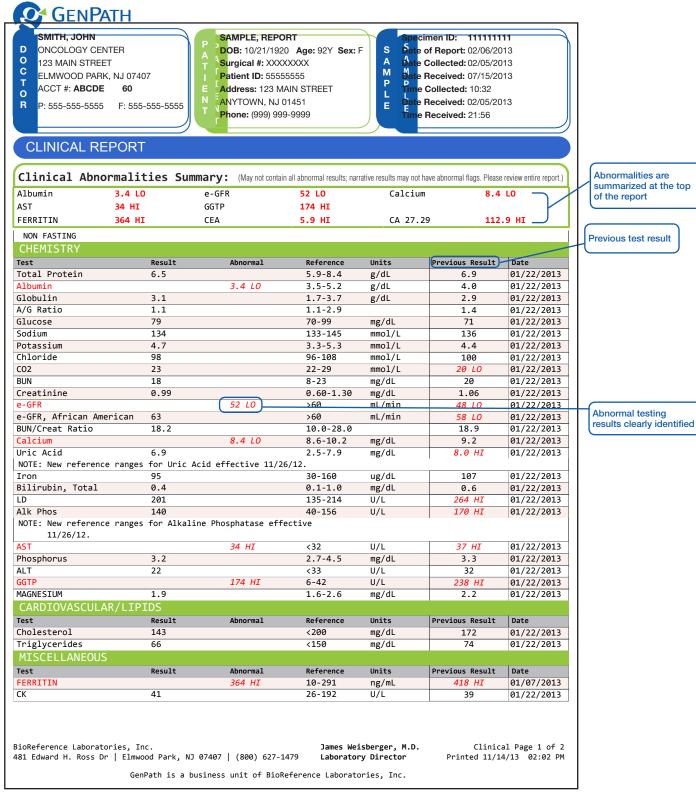
- Previous test results
- Abnormalities highlighted in yellow
- Easy to find final diagnosis
- Detail clinical abnormalities summary



Pathologist's diagnosis comparing current biopsy vs. previous



BRANDED REPORTS (CONT.)





BILLING POLICIES AND INSURANCE COVERAGE

GenPath, a division of BioReference Laboratories, Inc., will be billing as BioReference Laboratories.

Direct Billing To Patient

GenPath can bill your patients directly for our services. The patient's full name and street address (including apartment number, city, state, and zip code) must be clearly printed in the space provided on the requisition. A complete address at the time the test is ordered is essential. Each requisition will result in a separate bill to the patient. Payment of patient bills is due upon receipt and, if not paid, will be followed by subsequent reminders and normal collection activity.

GenPath offers a discount program to patients that need financial assistance.

Direct Billing To Third Party

For patients who are subscribers or recipients of benefits from one of the insurance payers listed on the following pages, GenPath will bill that carrier directly, provided all the necessary information is supplied with the requisition. Please be certain to include all of the necessary information in the spaces provided on the requisition at the time the test is ordered. Complete information avoids the need to interrupt and impose upon your staff or patients with requests for any missing information. GenPath will bill the patient directly for services not covered, deductibles, and co-payments as determined by the carrier and provided to GenPath on the explanation of benefits sent with the payment or rejection.

Medicare / Medicaid

For patients that are part of government healthcare programs, only AMA-approved panels should be ordered. All other tests must be ordered individually.

Hospital Billing

GenPath is required by law to bill all hospitals for the technical component of testing performed on Medicare and Medicaid inpatients or outpatients. Some exceptions do apply for Medicaid patients depending on the governing state laws. Patients that are deemed by the hospital as outreach patients can be billed to the appropriate payor directly. Privately insured patients can be billed directly to the insurance carrier if the hospital determines it to be appropriate according to their contracts. GenPath offers professional billing for all hospital clients.

Reminder to Clinicians

GenPath would like to remind all our customers that diagnostic testing services should be ordered only when medically necessary and when required for the diagnosis or treatment of a patient. Federal and state payers (Medicare and Medicaid) typically exclude most testing for screening purposes only. Exceptions and requirements are noted on following pages.

When ordering any of the tests above, outside of their corresponding utilization guidelines and without additional documentation, please have the patient sign the Advanced Beneficiary Notice (ABN), so they may be billed directly for the test.



GENERAL BILLING INFORMATION

At your discretion, GenPath billing as BioReference will (1) bill your office directly for services rendered to your patients (in those States that allow direct billing), (2) bill your patient, and (3) bill any of the third-party insurance carriers that BioReference is able to bill directly, provided your patient is an enrollee of one of these third-party carriers and you provide us with the necessary information.

Our computerized billing department submits electronic claims to many insurance carriers plus paper forms to others, as well as individual statements to patients and clients.

BioReference Laboratories submits claims to the following list of insurance companies.

Upon request for insurances not on this list, BioReference will bill the patient and provide a 1500 claim form for their convenience.



LIST OF INSURANCES FOR WHICH BIOREFERENCE SUBMITS CLAIMS

21st Century

A & I Benefit Plan

AAP Group Ins Trust

AARP

ABA / Affordable Benefit Admin

ABA / American Benefit Admin

Abercrombie & Fitch

Absolute Total Care

Academic Health Plans

Access Administrators Of Texas

Acclaim Medical Services

Accountable Health Plan

Acordia National

ACS Benefit Services Inc

ACS Employee Benefit

ADAP - New York

Administrative Concepts

Administrative Enterprises Inc

Administrative Service Consult

Administrative Solutions Inc

Advanced Benefit

Advanced Benefit Solutions

Advanced Insurance Admin

Advantage Care Select

Advantage Health Solutions

Advantra Freedom Medicare

Advantra Medicare Of Kansas

Adventist Care Center

Adventist Health Employee Plan

Advocate Christ Hospital Ipa

AETNA - All States

AETNA Better Health Medicaid

Affinity Health Plan

AFS Insurance Services Inc

Aftra Health Fund

A-G Administrators

AGC / Assoc Gen Contr

AGVA / American Guild Varity Artists

AHCCCS / Abrazo Advantage Health Plan

AHCCCS / Arizona Health Care

AHCCCS / Arizona Physicians IPA

AHCCCS / AZ Foundation For Medical Care

AHCCCS / Bridgeway Health Medicare

AHCCCS / Bridgeway Health Solutions

AHCCCS / Care 1st Health Plan

AHCCCS / Comprehensive Med Plan

AHCCCS / Comprehensive Medical Dent Pl

AHCCCS / Health Choice Arizona

AHCCCS / Maricopa Health Plan

AHCCCS / Mercy Care Advantage

AHCCCS / Phoenix Health Plan

AHCCCS / Schaller Anderson

AHCCCS / University Family Care

AHS Of Mississippi

AIG American International Grp

Alaska Electrical H & W

Alicare

All Care Medical Group

All State Workplace Division

Allegiance Benefit Pln Man

Allen J Flood

Alliance California

Alliance Health And Life

Alliance Onenet

Alliance Partners

Alliant Health Plans

Allianz Worldwide Care

Allied Administrators CA

Allied Benefit Funds

Allied Benefit Systems

Allied International Union

Allied Physicians Of CA

Allied Welfare

Alternative Benefit Plan

Alternative Ins Resources

Alternative Risk Management

Altius Health Plan

AM First

AMA / American Medical Assoc

Amalgamated Life

AMCO

Amedex Worldwide Ins Co

Amerasouth Administrators

Ameriben Solutions

American Administrative Group

American Administrators

American Benefit Administrators

American Benefit Plan Admin

American Community

American Community Providers

American Family Insurance

American Family Insurance Group

American Group Administrators

American Health Group Inc

American Health Medicare

American Healthcare Alliance

American Heritage Life Ins Co

American Home Assurance Korea

American Insurance Admin

American Life Ins Co

American Lifecare

American Maritime Officers

American Medical & Life

American Medical Security

American National

American Pioneer

American Plan Administrators

American Progressive Medicare

American Public Life Ins Co

American Republic

American Sentinal Ins Co

American Sterling Ins

American Transit Insurance

American Trust Admin

American Veterinary Med Assoc

American Workers Plan Kba

America's 1st Choice Health Plan

Americas Choice

Americas Health Choice Of Florida

Americhoice - Connecticut

Americhoice - Maryland

Americhoice - Mississippi

Americhoice - New Jersey And

New York

Americhoice - Pennsylvania

Americhoice - Tennessee

Americorps Seven Corners

Amerigroup - DC

Amerigroup - Florida

Amerigroup - Georgia

Amerigroup - Maryland

Amerigroup - New Jersey And

New York

Amerigroup - Texas

Amerigroup - Virginia

Amerihealth Administrators

Amerihealth HMO

Amerihealth Magellan

Amerihealth Mercy Health Plan

Amidacare

Amo Med Plan



Anchor Benefit Consulting

Angel Guardian
Antares EHP

Antares Magnt Prudential Ins Anthem Blue Cross Blue Shield

APA Partners Inc

Apex Benefit Services

Appalachian Benefit Admin

APWU / American Postal Workers Union

AR Health Plan Archcare Advantage

Argus PMB

Arkansas Best Corp HPO Arkansas Community Care Arkansas First Source

Arkansas Managed Care Org

ARM, Ltd

ARTA Western Health Network

ASC Findlay

ASEA / Alaska State Employee Assoc.

AW Claims Adminstration

ASRM. LLC

Associated Administrators Associated Benefits Corp Association Benefit Plan

Association For Lifesytle Reform

Assurant Health
Assurecare

Assured Assistance Travel Ins Assured Benefits Administrators

Asuris Northwest Health
Atlantic Administrators Inc
Atlantic Medical Insurance
Atlantic Southern Puerto Rico

Atlanticare

Atlantis Health Plan Atlas Administrators Aultcare Of Ohio

Aultman Primetime Health Plan Aultra Administrative Group Ausa Life Insurance Co

Automated Claims Processing

Auxiant

Avalon Benefit Services Avalon Healthcare Avemco Ins Co Avera Health Plans Avmed

BABB Incorporated

Bakery Confectionery & Tobacco

Bankers Life And Casualty

Banner Choice

BAS / Benefit Administ Systems

Bas Limited
Basic Benefits
BC Life & Health
BCS Insurance Co
BDAE Eurocare Inc

BDG Benefits Design Group

Beechstreet Network
Benecorp Insurance Co
Benefiit Services Inc

Benefit Administration Service

Benefit Assistance Corp

Benefit Concepts

Benefit Design Administrator
Benefit Management Inc
Benefit Management Svcs
Benefit Management Systems
Benefit Management Admin
Benefit Plan Administrators
Benefit Plan Management

Benefit Planners
Benefit Services PA
Benefit Solutions, Inc.
Benefit Support
Benesight

Benmark Inc City Of Gulfport

Benovation

Berkshire Health Plan

Best Doctors

Best Life And Health Ins Co Big Lots Assoc Benefit Plan Blue Advantage Of Arkansas Blue Bell Health Benefits

Blue Choice South Carolina Medicaid

Blue Cross Blue Shield PPO -All States Blue Card Blue Ridge Health Network Bluegrass Family Health

BMC Healthnet BMI Healthplans B'nai Brith

Boilermakers NTL Welfare Fund

Bollinger

Boone Chapman

Boulder Admin Service

Bravo Health Plan

Bricklayers Fringe Benefit

Bridge Benefits Cbca

Briad Group Claims

Bridge Breast

Bridgestone Claims Services
British American Mediflex Gold
British Caymanin Insurance
BRMS Benefit Risk Manage Serv
BSSI / Benefit Systems & Services Inc

Buckeye Comm Health Plan Business Admin Consult Butler Benefit Service Inc Cal Optima Direct

California Field Ironworkers
Cam Administrative Services

Cambridge
Capella Group
Capital Admin Inc

Capital Administrators Of SE

Capital Blue Cross Of Pennsylvania

Caprock Health Plan Cardinal Insurance Care Access

Care Improvement Plus
Care Management Group
Care Plus Health Plan Of Florida

Care UTU Yardmasters

Care VII

Carefirst Blue Cross Blue Shield - PPO

Careington International Caremore Health Plan

Carenet

Caresource Michigan
Caresource Ohio
Caricare Sagicor Life

Cariten PPO
Carolina Care Plan
Carolina Crescent
Carpenters Welfare

CBA / Comprehensive Benefit Admin

CBCA Administrators

CBH / Cigna Behavioral Health
CBSA / Corp Benf Srvcs Of America



CCMSI Cannon Cochran Mgmt Srvs

CCN / Community Care Network

CDPHP / Capital District Physicians HP

CDS Group Health

CEBA

CECHP / Chipitmacha Employee Hp

Celtic Conversion Coverage

Celtic Insurance

Celticare Centercare

Central Benefits

Central Employee Benefit Plan Central Health California Alliance

Central Health Medicare

Central Pa Teamsters H&W Fund

Central Reserve Life
Central United Ins Co
Century Healthcare

Champva

Charlotte Healthcare Svc Ctr

Chartis

Chatwins Healthcare Chcc Health Plan

Cherokee Indian Hosp Auth Chesapeake Life Ins Co

Chesterfield Resources

Chickasaw Nation Medical Center

Chickering AETNA

Childrens Mercy Healthpart

CHN / Consumer Health Network

Choicenet Intercare Christian Brothers

Christian Care Medi-Share

Christian Hosp Aid

Christus Spohn Health Network

Cigna - All States

Cinergy Health Preferred Plan

Cinergy Insurance

Citruscaid

Citruscare Medicare Advantage
City Of Mesa Employee Ben
Claims & Benefit Management
Claims Management Service
Claims Ware Incorporated

Claimtech

Classic Album LLC

Clear One Health Plan Medicaid

Clear One Health Plans

CMS Claims Management Services

CNA

CNIC Health Solutions

Coastal TPA Inc Coastwise

Cofinity

Colonial Healthcare Inc Colonial Life & Accident

Colorida Life & Accident
Colorado Access Advantage
Columbia United Providers
Columbian Life Ins Co

Combined Benefits Admin

Combined Govenment Health Plan

Commerce Benefits Group Commonwealth Administrators Commonwealth Care Alliance

Commonwealth Life Ins Community Administrators

Community Care Behavorial Health

Community Care Life
Community Claims Admin
Community First Hlth Pln

Community Health Choice Texas
Community Health Network Of CT
Community Health Of Missouri
Community Health Optima
Compass Rose Health Plan

Competitive Health

Compnet

Comprehensive Benefit Adm Comprehensive Benefit Consultants Comprehensive Care Management

Comprehensive Care Services

Compsych

Concert Health Plan Connecticare

Conseco Ins Co

Consociate Group Ins Co
Consolidated Health - Mass
Consolidated Health Plan Texas
Consolidated Workers Assoc
Consumer Advocate Group

Continental American Ins Co Continental Assurance Ins Co

Continental General
Continental Life Ins Co

Contra Costa Health Plan

Contractors Employee Ben Adm

Cook Children's Health Plan

Cook Group Health Plan

Cooperative Benefit Admin

Coordinated Benefit Plans, Inc.

Core Administrative Services

Core Health Plan

Core Management Resources

Coresource Corestar

Corevalue Medical

Cornerstone Preferred Resrc

Corphealth

Corporate Benefit Services
Corporate Systems Adminis

COSVI

Covenant Administrators Inc

Coventry Carelink
Coventry Cares
Coventry Carolinas
Coventry Delaware
Coventry Diamond Plan

Coventry Florida
Coventry Georgia
Coventry Iowa
Coventry Kansas
Coventry Louisiana

Coventry National Network

Coventry Nebraska
Coventry Nevada
Coventry Oklahoma
Coventry South Carolina

Coventry Southern Health Services

Coventry Summit Medicare

Coventry Tennessee
Cover Colorado

Cox Health Systems Inc
Creative Plan Administrators
Crossamerica Health Plans
Crossroads Healthcare
Cti Administrators
Culinary Health Fund
Cultural Ins Serv Internat

Cuna Mutual Custom Alloy

Custom Design Benefits



CWI Benefits

Cypress Benefit Administrators

Cypress Benefits

DAC / Diversified Group Brokerage

Dakotacare

Dart Management Corp Dayton T Brown Inc

DC 1707 Local 389 DC Chartered Health Plan

DCI Insurance Dept Dean Health Plan

Dean TPA

Debis Financial Services

Definity Health

Delaware Physicians Care Delta Health Systems

Denver Health Medicare Choice

Deseret Mutual Ben Admin

Design Savers Plan Destiny Health Plan DH Evans Assoc

Diamond Plan Maryland

Diamond State Partners Delaware

Direct Care Administrator

Direct Med

Direct Medical Solutions Disney Worldwide Serv. District 6 Health Fund

DKV Insurance DMC Care

Doctors Choice Administrators Driscoll Childrens Health Plan

Dunn And Associates Eastern Benefit System

EBA & M

EBMC / Employee Benefit Mgmt Corp EBMS / Employee Benefit Mgmt Services

EBS Of Ohio **ECOM Benefits**

Edinger Medical Group IPA

Educators Health Plan **Educators Mutual** EGA Erin Group Admin

Eighth Dist Elec Benefit Fund

Elder Health Elderplan ELMCO LLC Emblem Health

Emerald Health Network Emergency Assistance Japan Emerson Electric Co Ben Plan

Empire Blue Cross Blue Shield New York

Empire Plan / United Healthcare **Employee Benefit Administrators** Employee Benefit Concepts Inc **Employee Benefit Consultants** Employee Benefit Plan Admin Employee Benefit Service Ctr **Employee Benefit Services** Employee Benefit Solutions LLC

Employee Health Plan Aibonito

Employee Plans LLC Employee Security Inc. **Employers Direct Employers Mutual Empowered Benefits** Encore Health Network

Employee Painters Trust

Enigineers Joint Welfare Fund Entrust

Envision **EPC** Associates

Epoch Group LTC

Equitable

Equitable Plan Services ES Beveridge & Assoc ESP Enhanced Service Plan

Essence Medicare Euro Center USA **EV** Benefits Evercare Everence

Everest Administrators Evergreen Health Plan Inc **Evolutions Healthcare Systems** Excellus Benefit SVCS Inc Excellus Blue Cross Blue Shield

Exclusive Care

Fallon Community Health Plan Family Care Discount Plan Family Choice Medical Group Familycare Insurance

Fara Insurance Co Fbmc-United Benefits Fce Benefit Administrator

Federal Assistance Travel Insurance

Federal Black Lung Program

Federated Insurance Federated Mutual Ins Fedex Freight East

FHA TPA

FHA-TPA Southcare

FHHS / Florida Hospital Healthcare

Fidelis Care New York First Administrators First Carolina Care

First Choice Health Network WA First Choice Select Health SC

First Health

First Medical Health Plan Puerto Rico

First Plus Puerto Rico First Seniority Freedom First Service Administrators First United American Medicare

Firstcare Of Texas

Firstcare SW Health Alliance Firstchoice Administrators

FISERV Health Florida First

Florida Health Alliance EPO Florida League Of Cities

Florida Netpass

Fmh Benefit Services Inc Food Employer Benefit Fund CA Foreign Service Benefit Plan Forest Oil Group Medical Plan

Fortis Benefits

Fortis Insurance Company Foundation Admin Service Foundation Benefits Admin Foundation For Medical Care Foundation Health Admin TPA

Fox Everett

Fox Valley Labor Welfare Fund Freedom Claims Management, Inc.

Freedom Health

Freedom Life Ins Co Of America Fringe Benefit Coordinators Fringe Benefit Services Inc Fringe Benefits Consortium

Frontpath Health



Futurepoint

Galaxy Managed Care Inc

Gallagher Benefit

Garden State Health Care

Gateway Health Plan

Gateway Plans Administrators

GBS / Group Benefit Services

GEHA / Government Employees

Hospital Asso

Geisinger Health Plan

Generations Healthcare

Genesee Health Plus Of Michigan

Georgia Ports Authority

Gerber Life

Gettysburg Health Admin

GHI / Group Health Inc / Emblem Health

GHP CMR Carpenters H&W

GHP Group Health Plan

GHP ST Charles County Gov't

Gilsbar Incorporated

Global Care

Global Health Inc

Global Medical Management

Globalcare Health Ins

GMP Employers Retirees Trust

Gold Med Global Excel

Golden Rule

Good Samaritan

GPA / Group Pension Administrators

Great American

Great Lakes Helath Plan

Great West - All States

Greentree Admin

Group Administrators

Group Benefit Admin

Group Benefits Program

Group Insurance Service Ctr

Group Resource Inc

GTC Greater Tri Cities

Guarantee Trust Life Ins Co

Guardian

Guidestar PPO

Gundersen Lutheran Health Plan

Haa Preferred Partners

Hammerman & Gainer, Inc.

HAP / Health Alliance Plan Michigan

Harrington Health

Harrington Healthchoice

Harvard Health Plans Inc

Harvard Pilgrim Health Care

Harvard Pilgrim Student

HCH Administration

HCPC / Healthcare Payers Coalition

HCPIPA Healthcare Partners IPA

Health Administrators

Health Alliance Health Plan

Health America

Health And Welfare Benefit Sys

Health Assurance

Health Cost Solutions

Health Design Plus

Health EOS

Health Exchange

Health First Florida Health Plan

Health Flex 2000

Health Ins Risk Share Plan

Health Manager

Health Net Of California

Health Net Of North East

Health Network One

Health New England

Health NOW

Health One National

Health Partners Minneapolis

Health Partners Of Pennsylvania

Health Plan Of Michigan Health Plan Of Nevada

Health Plan Of San Joaquin

Health Plan Of San Mateo

Health Plan Of Texas

Health Plan Of Upper Ohio Valley

Health Plan Select

Health Plans Incorporated

Health Plus New York

Health Plus Of Louisiana

Health Provider Org Ltd

Health Systems International

Healthallies Inc

Healthcare One

Healthcare Plan Of Georgia

Healthcare Solutions Group

Healthcare USA

Healthcomp Admin Inc

Healthease (Wellcare)

Healthfirst - New Jersey

Healthfirst - New York

Healthfirst TPA Austin

Healthfirst TPA Houston

Healthfirst TPA Tyler

Healthlink

Healthlink State Of Illinois

Healthplan Services

Healthplus Michigan

Healthreach Advantage

Healthscope Benefits

Healthsmart

Healthsmart Accel

Healthsmart Benefit Solutions

Healthsource

Healthspring Inc

Healthsun Health Plans Of Florida

Healthy Palm Beach Of Florida

HIP / Health Insurance Plan Of New York

HIRSP Health Ins Risk Share Plan

HM Care Advantage

HMA Administrators LLC

HMA Healthcare Mgmt Admin

Homeland Health Care AIG

Hometown Health Nevada

Hometown Health Texas

HOP Administration Unit

Horizon NJ Health Mercy Health Plan

HPS Services Corp

HRH Of Illinois

HRM Claim Management

HSBA Health Service Benefit Admn

HSR Administrators

HTH Worldwide Insurance Svs

Hudson Health Plan

Hudson River Healthcare

Humana - All States

Humana Military Tricare South

Humana Of Puerto Rico

Hygeia Corporation

IAA / Insurance Administrators Of America

IAM Northwest Health Fund

IAP Specialist Secondary
IBA Crossamerica

IBEW / NECA SW Health & Ben Fund

ICHIA

ICON Benefit Admin



IDA / Insurance Design Admin

IE Shaffer

IEES

Illinois Mutual Life Ins Co

IMC / International Medical Card

IMG / International Medical Group

IMS / Interactive Medical Systems - TPA

INDECS Corp

Independent Care Plus
Independent Health
Independent Processing

Indiana Prohealth

Indiana State Council Roofer
Indiana Teamsters Health Fund

Individual Health Benefits
Infinity Administrators
Informed Adventist HC
ING Life Ins And Annuity Co
Ingham Health Plan Of MI

Innovante Benefit Administrators

Innovative Admin Services

INSTIL Health

Insurance Administrative Corp

Insurance Mgmt Admin Of Louisiana

Insurance Mgmt Services
Insurance Service Center
Insurance Service Of Lubbock
Integra Administrative Group
Integrated Services United Health

Integritas Benefit Group Llc Integrity Administrators Integrity Benefit Group

Integrity Health

Inter American Ins Corp Inter Valley Health Plan Intergroup Services

International Benefits Administrators

International Claims Services
International Health Insurance
International SOS Assistance
Ironworkers Intermountain Fund
Island Group Administration
ITPE Health Welfare Fund
Jackson Memorial Health
JAI Medical Systems
Jardin Group Services
Jas-Jenson Admin Service

Jefferson Pilot

John Alden

John Deere

John Muir Physicians Network

John T Riley Insurance

Johns Hopkins US Family Health Plan

JP Farley Corporation JPS Benefit Services JSL Administrators

JW Terrill

Kaiser Permanente California Kaiser Permanente Colorado Kaiser Permanente Georgia

Kaiser Permanente Hawaii Kaiser Permanente Mid-Atlantic

Kaiser Permanente Ohio Kaiser Permanente Texas Kanawha Healthcare Solutions

Kappa Keenan

Kelsey Care Advantage Kentucky Access

Kansas Health Ins Assoc

Kentucky Health Choices Key Benefit Administrators Keystone Mercy Health Plan

Klais & Company Inc KPS Health Plans

Laborers Health Fund So Calif Laundry And Dry Cleaning Wkrs

LBA Health Plans

League Atpam Welfare Fund Leon Medical Center Health Plan

Liberty Health Advantage

Liberty Union Life Life Benefit Plan

Lifeprint Lifewise

LIG Insurance

Lincoln Financial Group

Liuna Staff Health & Welfare Local 0455 South Central Ufcw Local 100 Sheet Metal Workers Local 1010 Pavers & Road Build

Local 102 Bakery Confectionery

Local 1034 Local 1036 UFCW Local 104 Sheet Metal Workers

Local 108 Retail Wholesale

Local 1102 Local 1109

Local 115 Teamsters Union

Local 1181 ATU

Local 1199 Home Care

Local 1199 National Benefit Fund

Local 1205

Local 1222 Welfare Fund

Local 1245 Local 1298

Local 132 West Virginia Local 135 UFCW

Local 1360 UFCW Local 137 IUOE Local 138

Local 1428 UFCW

Local 14 14B

Local 144 Nursing Home
Local 145 IBEW Welfare Plan
Local 1478 2 Longshoremen
Local 148 Production Workers
Local 15/15A/15C/15D/AFL CIO

Local 1430 IBEW Health Fund

Local 152 West Virginia Local 1529 United Food Local 169 Laborers

Local 17 18 United Production Workers

Local 172 142 Heavy General Local 1730 Long Shoremen

Local 174

Local 177 Plumber & Steamfit

Local 18a/20 - Concrete And Cement

Local 194 Local 1964 - ILA Local 1d Wine Liquor

Local 202

Local 21 Plumber Pipefitters Local 210 Unity Welfare Local 22 Sheet Metal

Local 223 National Health Plan Local 237 Employees Union

Local 239

Local 25 Health Plan

Local 257

Local 26 Electrical Trust



Local 269 IE Shaffer

Local 27 Local 272

Local 277 Welfare Funds

Local 28 Sheet Metal Workers

Local 29

Local 290 Plumber Steam Ship Local 2947 Hollow Metal Trust

Local 295 Group Welfare

Local 3 IBEW Local 30 Engineers

Local 300 Production Service

Local 302 & 612

Local 305

Local 306 C/O ASO Local 338 RWDSU

Local 340 Barneys Retail

Local 350 Plumbers And Pipefitters

Local 351 IE Shaffer

Local 354 Plumbers And Pipefitters

Local 365 UAW

Local 37 Iuoe Operating Engineer

Local 377 Welfare Fund Local 4 Health & Welfare Local 4 Roofers Union Local 4 SEIU Illinois

Local 40 361 Iron Workers

Local 413 Local 424

Local 463 National Health Plan

Local 469 Benefit Teamsters

Local 475 Steamfitters

Local 478 IE Shaffer

Local 485 Machine Workers

Local 522 Welfare Fund

Local 531 Teamsters Welfare Fund

Local 54 Theater Workers
Local 550 Bakery Workers
Local 56 Health & Welfare

Local 560 Trucking Local 57 IBEW

Local 610 Stationary Engineers

Local 621 United Labor Local 66 Pointers Cleaners Local 670 Stationary Engineers

Local 700 IE Shaffer

Local 701 Welfare & Pension

Local 715 NJ Carpenters

Local 723

Local 74 SEIU / NAHP

Local 770 UFCW

Local 790 Shop Ironworkers Local 798 Make Up Artists Local 8 United Roofers Union

Local 802 Bakery Drivers Local 802 Musicians

Local 803 Union Administrators

Local 806

Local 807 Teamsters Trucking

Local 810

Local 812 GIPA Health Local 814 Teamsters

Local 821 Carpenters Specialty Local 825 Operating Engineers

Local 854 Bus Drivers Local 854 Truck Drivers

Local 863 - Fruit And Vegtables

Local 868

Local 880 UFCW

Local 888

Local 90 Laborers Local 917 Drivers Union

Local 918 United Teamsters Local 947 Health & Welfare

Local 97 Teamsters

Local 971 Combined Welfare Lockard & Williams Ins Co

Loomis Company

Louisiana State Employee Group

Lovelace Hmo Helathplan
Lucent Informed Choice
Lutheran Preferred
Macori Administration

Magellan Behavioral Health

Magnacare

Magnolia Health Plan

Maher Terminals Insurance
Mail Handlers Benefit Plan
Maksin Management Group

Maloney Associates

MAMI Major American Mrket Intl

MAMSI

Managed Benefit Administrators

Managed Benefit Plans

Managed Care Administrators

Managed Care Inc

Managed Health Network

Managed Health Service Indiana

Managemed

Manatee Service Center
Manhattan Insurance Group
MAPFRE Life Insurance Co

MAPSI

Marsh Advantage American Martins Point Health Care Maryland Electrical Indstry Maryland Physicians Care Mashantucket Pequot Plan Masonry Security Plan Of WA

Master Mates & Pilots

Mayer Textile Machine Corp

Mayfair Fulhealth Ins

Mayo Management Services

MBA Of Maryland MBA Of Utah MC2 Health

MCA Administrators

McCalls
McCrew Care

MCI / Galaxy Managed Care
McLaren Health Advantage

MCM Maxcare
MCS Reclamacion
MDCARE Health Plan Inc

MDIPA

MDNY Healthcare MDWISE Care Select MDWISE Family Planning

MDWISE HIP

MDWISE Hoosier Alliance

MDWISE Methodist
MDWISE Prohealth

MDWISE Select Health Network

MDWISE St Anthony MDWISE St Catherine MDWISE St Francis

MDWISE St Margaret Mercy

MDWISE St Vincent MDWISE Wishard MDX Hawaii



MEBA Medical & Benefit Plan

MED Pay MED Save

MedAdmin Solutions

MEDBEN / Medical Benefits Admin

Medcost Benefit Services Medica Healthplan Of Florida

Medicaid Alabama Medicaid Alaska Medicaid Arkansas Medicaid California

Medicaid Colorado Medicaid Connecticut Medicaid Delaware Medicaid Florida

Medicaid Hawaii Medicaid Idaho Medicaid Illinois Medicaid Indiana Medicaid Iowa Medicaid Kansas

Medicaid Georgia

Medicaid Kentucky Medicaid Louisiana Medicaid Maine Medicaid Maryland Medicaid Massachusetts

Medicaid Michigan Medicaid Minnesota Medicaid Mississippi Medicaid Missouri

Medicaid Montana Medicaid Nebraska

Medicaid Nevada

Medicaid New Hampshire Medicaid New Jersey Medicaid New Mexico Medicaid New York Medicaid North Carolina

Medicaid North Dakota Medicaid Ohio

Medicaid Oklahoma Medicaid Oregon

Medicaid Pennsylvania

Medicaid Rhode Island Medicaid South Carolina

Medicaid South Dakota

Medicaid Texas

Medicaid Utah Medicaid Vermont

Medicaid Virginia

Medicaid Washington Medicaid Washington DC

Medicaid West Virginia Medicaid Wisconsin Medicaid Wyoming

Medi-Cal

Medical Claims Management Medical Devel International Medical Mutual Of Ohio Medicare - All States

Medigold Mediprime Medisun

Medstar Family Care Med-Team DC-37 Mega Life & Health Memorial Healthcare IPA

Memorial Hermann HNP Memorial Managed Care Of Florida

Mennonite Mutual-MMA

Mercer Administration Mercy Health Plan Missouri Mercy Health Plan New Jersey

Meritain Health

Metcare Health Plans Inc Methodist MSAG Healthcare

Mercy Health Plan Texas

Metroplus Health Plan MHN / HMC-HNNE

MHS Managed Health Service Indiana

Mid America Assoc Midwest Health Plan Midwest National Life Midwest Security Admin

Millette Admin Missionary Medical Mississippi Admin

Mississippi Health Partners Mississippi Physicians Care

Missouri Care

Missouri Consol Hlth Care Plan

Mitsui Sumitomo Ins MMM Healthcare Medicare MO HealthNet

MOAA Mediplus

Mobility Benefits

Molina Health - California Molina Health - Florida Molina Health - Michigan Molina Health - Missouri

Molina Health - New Mexico

Molina Health - Ohio

Molina Health - Salud New Mexico

Molina Health - Texas Molina Health - Utah Molina Health - Washington

Monarch Healthcare IPA Monroe Plan For Medical Care

Montefiore CMO

Montgomery Cancer Crusade

Monumental Life Ins

Morgan-White Admin Internl

Morris Associates

Motorola Health Advantage Plan Mountain States Admin Services MS Physician Care Network Multinational Underwriters Inc

Multiplan

Municipal Health Of Arkansas Mutual Assurance Administrators Mutual Medical Plan HD Smith

Mutual Of America Mutually Preferred

MVP Health Plan Of New York

NAHGA Claims Service

NALC / National Assoc Letter Carriers

NAMCI

NASI / National Automatic Sprinklers

National Alliance CBMC National Asbestos Workers National Benefit Administ National Claims Administration National Foundation Life Ins National Health Administrators National Maritime Union Plan National States Insurance National Way Healthcare Assoc

Nationway Healthcare

Nationwide

Nationwide Specialty Health



NBLA / National Better Living Assoc

NCAS / National Claim Adm Service

NCE Preferred Care

NEA Group Insurance

NEBA / National Employee Benefit Admin

Neighborhood Health - Florida

Neighborhood Health - Massachusetts

Neighborhood Health - New York

Neighborhood Health - Rhode Island

Network Health Forward

New Century Infusion SOL

New England Financial Employee Benefits

New Era Life Ins Co

New Jersey Carpenters Local 715

New Mexico Presbyterian

New Source Benefits

New West Health Services

New World Administrators

NexCaliber

NFL Players Insurance Plan

NGS American, Coresource

NHealth

NHL Group Health Ins Plan

Nippon Life Insurance

Nishimoto Trading Company

NJCEED Brava

NJTMA / Employee Benefit Assoc

NMU Pension & Welfare Plan

Noble Mid Orange County

Norfolk Mobility Benefits

Noridian Benefit Plan Admin

North American Administrators

North American Health Plan

North Carolina State Health Plan

Northern Calif Teamsters

Northstar

Northwest Administrators Inc

Northwest Sheet Metal Workers

Nova Healthcare Admin

NovaNet Inc

Novasys Health

NTCA / National Telecom Coop Assoc

NY Life Insurance Co

NY Presbyterian SelectHealth

NYS Catholic Health Plan

ODS Health

Ohio Carpenters Health

Ohio Health Choice

Old Surety Life Ins Co

Omnicare

One Source EPO

ONeill Consulting

Operating Engineers Trust Fund

Optima Health

Optimed Health Plan

Optimum Choice

Optimum Healthcare, Inc.

Options Health Plan

OSF Health Plans

OSMA Health

Oxford Health Plan

P5 Electronic Health

Pace Center NY

Pacific Health Alliance

Pacificare

Pacificare Secure Horizon

Pacificsource Health Plan

PAI / Planned Admin Inc.

Palmetto GBA Railroad

Pan American Life

Pan American Life Puerto Rico

Paragon Benefits Inc

Paramount Health Care

Parkland Health First

Passport Advantage

Passport Health Plan

Patriot Health Plan

Patriot Healthcare

D. O. . . . Ol.

Peace Corps Claims

PeachState Health Plan

Pearce Administration

Pedicare

Pekin Life Insurance Comp

Penn Western Benefits WCWC

Peoples Benefit Life Ins Co

Peoples Health Network

Pequot Plus Health Ben Svc

Perfect Health Ins Co

Performax

Personal Care

PHCS / Private Healthcare Systems

PHCS Savility

Phifer Wire Products, Inc.

Philadelphia American Life

Physicians Care

Physicians Healthchoice

Physicians Heathplan Mid Michigan

Physicians Mutual

Physicians Plan Northern In

Physicians United Plan

PIA / Personal Ins Adm

Pinellas County Health Service

Pinnacle Claims Management

Pinnacle Health System

Pioneer Life Insurance

Pipeline Industry Benefits

Pittman & Associates Inc

Plan Handlers Healthscope

POMCO

Positive Healthcare Partners

Post Masters Benefit Plan

PPHN

PPOM American Community

PPP Healthcare

Prairie States Enterprises Inc

Precise Comprehensive Benefits

Preferred Benefit Admin

Preferred Benefits Administrator

Preferred Care Inc.

Preferred Care Partners

Preferred Choices Ppo

Preferred Community Choice

Preferred Health Plan

Preferred Health Professionals

Preferred Health Systems

Preferred Healthcare

Preferred Healthcare System

Preferred Medical Plan Of Florida

Preferred Medicare Puerto Rico

Preferred One Admin

Preferred Plan

Preferred Plus Of Kansas

Premier HMO Of Missouri

Premier Physician Network IPA

Presidential Life

Prestige Health Choice

Prestige International USA

Primary Physiciancare Inc

Primary Select PPO

Principal Financial Group

Priority Health Of Michigan



Priority Partners PPMCO

Pro America

Pro Net

Professional Administrators

Professional Benefit Administrators

Professional Benefit Service, Inc.

Prohealth Healthmark

Prosam

Prospect Cal Optima
Providence Health Plan
Provider Benefit Plans, Inc.

Providers Network Of America

Prudential Overall Supply Benefit Fund

PSATS Trustees Ins Fund PSERS Health Admin Unit Public Employee Health Plan

Publishers News Mail
Pyramid Life Insurance
QHP / Quality Health Plan
QSIT Qualicare Self Ins Trust

Quadmed Claims

Qualcare

QualChoice QCA In Arkansas Qualicare Self Insurance Trust

Quik Trip

Railroad Maint & Indust Health

Railroad Medicare RBA Administrators

RBMS LLC

RCI Regional Care Inc

Red Bridge

Redwood Health Services

REFCO

Reformed Church America Regal Medical Group

Reliance Insurance

Religious Comp Trust Reserve National Ins Co

Resource One Admin

Reward Administration Center

Reynolds & Reynolds RH Administrators Inc

RIO Grand Employee Hospital

Risk Reduction Inc

River Valley United Healthcare

RMSCO

Rocky Mountain Health Plan

Rojw Healthcare Support

Royal Neighbors Of America

RSL Specialty Prod Admin

Rural Carrier Benefit Plan

Rural Health Plans Initiative

RWDSU

Ryan White Tennesee

S & S Healthcare Strategies Sagamore Health Network

Sage Technologies

Salvation Army C/O Chesterfield Resources

SAMBA

San Diego County Fringe Ben

San Joaquin Health Admin

Sanford Health Plan Sanus Health Corp

Scan Health Plan AZ

Scan Health Plan Of CA SCIRHC

Scott & White Health Plan

Seabury & Smith

Seafarers Welfare Plan

Seaview IPA

Secure Care HMO Of Ohio

Secure Health Plan Of GA

Secure Horizons UHC

Security Administ Services
Select Administrative Services

Select Benefit Admin Of America

Select First Administrators

Selectcare Of Texas

Selectcare Worldwide

SelectMed Plus - Medical Mutual Ohio

Self Insured Benefit Admin

Self Insured Plans

Seminole Tribes

Senior Care Connect

Senior Care Plus

Senior First Of Alabama Senior Health Partners

Senior Whole Health

Sentara Health

Sentinel Administrators

Sentry Insurance Mutual Co

Seton Healthcare Seven Corners Seven Corners Peace Corps

Sharp Community Medical Group

Shasta Administ Services

Sheffield Olson & McQueen

SIBA / Self Insured Benefit Admin

SIEBA

Sierra Health

Significa Insurance Group

SIHO / Southern Indian Health Org

Simplicity Health Plan

Simply Healthcare Plans

Sinclair Health Services

Sioux Valley Health Plan

SISCO

Smith Administrators

SO Texas Health System

South Central Preferred

Southcare IBA

Southern Benefit Services

Southern Benefits Admin

Southern Benefits Service

Southern Graphic Health Fund Southern Health Services

Southwest Admin

Southwest Carpenters Health

Southwest Multicraft Health

Southwest Service Administrators Inc

Southwest Service Life

Special Insurance Services Inc

Spectrum Administrators

Spraying Systems Co

SRC - Strategic Resource Company

SRI / Specialty Risk Inter

SS Healthcare Strategies

St Barnabas System Health Plan

St Francis Health Network

St Johns Claims Admin

St Joseph Health Preferr Ipa

St Joseph Hospital Affil Phys

St Lawrence Lewis Ins

St Marys Health Plan

Standard Life & Accident Ins

Standard Security Life

Star Healthcare Network Inc

Starbridge CIGNA

Starmark

Stateline TPA



Staywell (Wellcare) Sterling & Sterling Sterling Option 1

Stirling Benefits

Student Assurance Services Student Resources Mega Life Suburban Health Organization

Summacare Of Ohio
Summit Administrators
Summit America Ins Serv
Summit Health Plan
Summit Medicare
Summit Vista Advantra

Sun Health Medisun AZ Sunshine State Health Plan

Superien Health

Superior Administrators Superior Health Plan

SuperMed / Medical Mutal Ohio

SW Service Admin Of AZ SW Service Life Ins

Swedish Covenant Managed Care

Talbert Medical Group, Inc.
Tall Tree Administrators
Taylor Benefit Resource Inc
TCC Of South Carolina
Teachers Health Trust
Teamsters Benefit Trust
Tencon Health Plan
Tenet Choices Medicare
Texas Childrens Health Plan

Texas International Ins Texas True Choice

The TPA

Thomas Cooper Company

Three Rivers Provider Network

Timbar Group Ins
Time Insurance Co
TL Groseclose Asso
TLC Benefit Solutions

TML / Texas Municipal League

Todays Options

Toledo Public School Hlth Plan

Total Broker Benefits
Total Claim Administrators
Total Claims Solution
Total Health Care
Total Health Choice

Total Plan Services

Touchstone Health Partnership

Tower Life Ins TPA Of Georgia

TPAC / The Physicians Assurance Corp

TR Paul

Transamerica Financial
Travel Care Services
Tri Union Health
Triad Group Llc
TriCare Europe
TriCare For Life

TriCare Latin America & Canada

TriCare North

TriCare North / HealthNet Fed Serv

TriCare Pacific
TriCare South
TriCare West
Trident Plan Admin

Trinity Broadcast Health Plan

Triple S Of Puerto Rico

TriSurant

Trusted Plan Services Corp

Trustmark

Tucson Claim Center
Tufts Health Plan
TW Lord & Associates

UABT / United Agricultural Bene
UAHC Health Plan Of Tenn

UCare Minnesota UFirst Medicaid Florida

UHC - New York And New Jersey

Ultra Benefits Inc

UMCH University Medical HP
UMR / United Medical Resources

UniCare - All States
Unified Group Services
Uniformed Medical Plan
Uniformed Services Family HP

Unison Health Plan

United Administrative Services

United American Insurance Company

United Behavioral Health
United Benefit Fund
United Benefits-FBMC
United Commercial Travelers
United Employees Health Plan
United Group Programs Inc

United Healthcare - New York And

New Jersey

United Healthcare Student Resource

United Medical Alliance

United Security Life

United Service Assoc For HC United Wire Metal & Machine

Unity Health Insurance

Univera Blue Cross Blue Shield

Universal Assistance Inc

Universal Health Care Of Florida

Universal Health Network
University Of Missouri
University Utah Health Care
Unkechaug Indian Nation
UPMC Health Plan

UPREHS

Upstate Administrative Serv
Upstate Employees Benefit Fund

US Able Life US Alliance

US Dept Of State ASPE US Family Health Plan

US Life US Now

USI Administrators
Utah Idaho Teamsters
Utah Pipe Trade Fund
VA Premier Health
Vale U Health

Valero Energy Corporation

Value Options

Vanbreda International Vantage Health Plan Vantage Medical Group Ventura County Health Plan

VIA Christi Hope

Vida Care

Virginia Health Network
Virginia Premier Health Plan
Virtual Benefits Admin
Vista Plan Florida

Vita Health Viva Health

VNS / Visiting Nurse Services Volusia Health Network

Vytra Quest

Wabash Memorial Hosp Assco



Washington Employers Trust

Waterstone Benefit Admin

Watkins Assoc Industries

Wausau Benefits

WEA Trust

WEB TPA

WEDCO Health Dept

WelForce Administrators

Wellborn Health Plan

Wellcare - All States

Wellforce Administrators

WellMed

Wellnet Healthcare

Wellpath Select Coventry

Wellpoint Blue Cross Blue Shield

Wells Fargo TPA

West Virginia Employee Benefit

Western Benefits Ppo

Western Maryland Health System

Western Mutual Insurance

Western Southern Life

Westlake Financial Group

Westport Benefits

William J Sutton & Co

Willis Corroon

Willis Of Kansas

Windsor Medicare Extra

Wood And Grooms Ben Serv Inc

Work Site Solutions

World Insurance Company

Worldwide Assistance Service

WPEE Insurance Trust Fund

WPPA Mega Life

WPS Health Insurance

WPS TriCare West

WV Laborers' Trust Fund

Young Life

Young Life Benefits Plan

Zenith Administrators Inc



LICENSES AND REGULATORY INFORMATION

BioReference Laboratories in Elmwood Park currently holds licenses for testing in the following states, as well as a CLIA Certificate issued by the Centers for Medicare and Medicaid Services (CMS).

CLIA Certificate	#31D0652945
College of American Pathologists	#LAP12372-01
CMS	
Medicare	#301910
Cytology/Pathology	#CY305343
New York State Permit	#PFI3130
New Jersey State License	#0000283
Maryland State Permit	#482
Pennsylvania State Permit	#022757A
Florida State License	#800004934
Rhode Island State License	#LC000305
California State License	#COS800242
DEA Registration	#RBO215726
West Virginia State License	#RL17
Vermont State Certificate	HIV, Urine Drugs

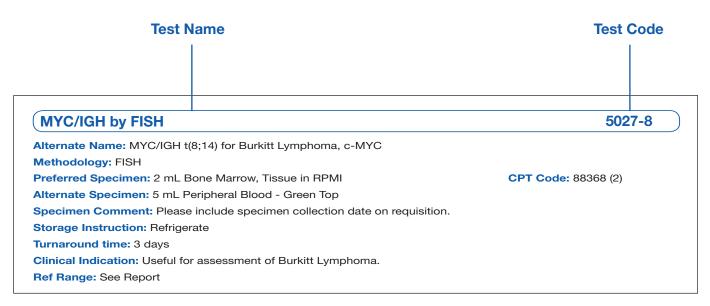


HOW TO USE THE TEST DIRECTORY

This directory describes the diagnostic testing and ancillary services that can assist you and your staff in providing the best possible medical care to your patients.

The major section of this directory is the alphabetical test listing by test name. This section describes in detail, the specimen requirements and clinical utility of each test. In addition to the alphabetical listing, tests are listed by test code.

Our Test Format



Legend for Test Directory

FISH: Fluorescence In Situ Hybridization

IHC: Immunohistochemistry

PCR: Polymerase Chain Reaction



LABORATORY TESTS IN ALPHABETICAL ORDER



-5/5q- by FISH- TC Only

A869-0

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: MDS with isolated 5q- is a discrete subset of MDS with a favorable prognosis. Unlike the majority of MDS, most patients with 5q- syndrome are elderly woman, with a 2:1 female predominance. Lenalidomide (an immunmodulatory drug) is FDA approved for 5q-

MDS. Commonly ordered through the MDS FISH panel (TC Only), P960-8.

Ref Range: See Report

-7/7q- by FISH- TC Only

A868-2

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: 7q- is a common cytogenetic abnormality found in MDS. Entire or partial deletions of chromosome 7 generally confer an intermediate prognosis when found in isolation. Genetic alterations of 7 is a poor prognosis when found in conjunction with other cytogenetic

abnormalities of clinical significance. Commonly ordered through the MDS FISH panel (TC Only), P960-8.

Ref Range: See Report

11q22.3 by FISH- TC Only

A879-9

Alternate Name: ATM by FISH, TC Only

Methodology: FISH

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88367-TC (1)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: FISH for 11q23 provides useful prognosic and therapeutic information. CLL patients with 11q23 deletion have rapid disease progression and shorter treatment free survival. This deletion in the ATM gene, a tumor supressor gene, occurrs in 10-20% of CLL

cases. Commonly ordered through the CLL FISH panel (TC Only), P962-4.

Ref Range: See Report

13q14 by FISH- TC Only

A872-4

Alternate Name: RB1 by FISH, TC Only

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: FISH for 13q14.3 (D13S319) provides useful prognostic information in the management of CLL patients. Deletions involving 13q14 are detectable by FISH in approximately 50% of persons with CLL. As the sole aberration, del(13q) is associated with a more favorable clinical outcome. However, recent studies have shown that certain CLL patients with a larger size deletion in 13q14 correlate strongly with a concomitant RB1 deletion. Patients with an RB1 deletion or those have a 13q14.3 deletion in > or equal to 70% of nuceli have in fact a shorter time to treatment. Commonly ordered through the Multiple Myeloma FISH panel (TC Only), P961-6.



13q14.3 by FISH- TC Only

A878-1

Alternate Name: D13S319 by FISH, TC Only

Methodology: FISH

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88367-TC (1)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: FISH for 13q14.3 (D13S319) provides useful prognostic information in the management of CLL patients. Deletions involving 13q14 are detectable by FISH in approximately 50% of persons with CLL. As the sole aberration, del(13q) is associated with a more favorable clinical outcome. However, recent studies have shown that certain CLL patients with a larger size deletion in 13q14 correlate strongly with a concomitant RB1 deletion. Patients with an RB1 deletion or those have a 13q14.3 deletion in > or equal to 70% of nuceli have in fact a shorter time to treatment. Commonly ordered through the CLL FISH panel (TC Only), P962-4.

Ref Range: See Report

17p13 by FISH- TC Only

A874-0

Alternate Name: p53 by FISH, TC Only

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time**: 3-5 days

Clinical Indication: 17p or p53 is commonly referred to as a universally poor prognostic factor in hematological malignancies. A unifying molecular genetic abnormality in these cases appears to be a deletion or inactivation of one copy of the TP53 gene, with subsquent inactivation of the second allele. Commonly ordered through the CLL FISH panel (TC Only), P962-4.

Ref Range: See Report

1p/19q by FISH A311-3

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88368 (2)

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Turn Around Time: 7 days

Clinical Indication: As an aid in diagnosing oligodendroglioma tumors and predicting the response of an oligodendroglioma to therapy.

Ref Range: See Report

1q21 by FISH- TC Only

A876-5

Alternate Name: CKS1B by FISH, TC Only

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: FISH is used to detect the amplification of 1q21, a poor prognostic marker for Plasma Cell Myeloma. Commonly ordered

through the Multiple Myeloma FISH panel (TC Only), P961-6.

Ref Range: See Report

20q12 by FISH- TC Only

A871-6

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: Deletions in 20q12 is a favorable prognostic marker for myelodysplastic syndrome (MDS). It also can be helpful to aid in the diagnosis of MDS in the presence of negative morphological findings. Commonly ordered through the MDS FISH panel (TC Only), P960-8.

Ref Range: See Report

A2



Acute Hepatitis Panel for Medicare

3283-9

Preferred Specimen: SST Tube CPT Code: 80074 (1)

Alternate Specimen: Red Top,Aliquot Tube-Serum,Microtainer - Pediatric SST,Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Components: HEPATITIS A Ab,IgM, HEPATITIS B CORE Ab,IgM, HBsAg, HEPATITIS C Ab.

Clinical Indication: Comprehensive profile for detecting markers for HAV or HBV infections; can be used for all stages of infection

Ref Range: See Report

Acute Leukemia & Myeloid Disorders Analysis

5515-2

Methodology: Flow Cytometry

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88184 (1), 88185 (27), 88189 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI, Peripheral Blood - Lavender Top

Specimen Comment: Submit within 24hrs. of collection, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Flow Cytometry is highly sensitive and specific in diagnosing non-Hodgkin lymphoma and acute leukemias and in identifying granulocytic, monocytic, erythroid, and megakaryocytic differentiation. Flow allows examination and characterization of normal myeloid, monocytic, and immature hematopoietic precursors and their specific, synchronized patterns of antigen expression.

Ref Range: See Report

Acute Leukemia & Myeloid Disorders Analysis- TC Only

5516-0

Methodology: Flow Cytometry

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88184 (1), 88185 (27)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI, Peripheral Blood - Lavender Top

Specimen Comment: Submit within 24hrs. of collection, Time Sensitive

Storage Instruction: Refrigerate
Turn Around Time: 1 day

Clinical Indication: Flow Cytometry is highly sensitive and specific in diagnosing non-Hodgkin lymphoma and acute leukemias and in identifying granulocytic, monocytic, erythroid, and megakaryocytic differentiation. Flow allows examination and characterization of normal myeloid, monocytic, and immature hematopoietic precursors and their specific, synchronized patterns of antigen expression.

Ref Range: See Report

Acute Leukemia/MDS IHC Panel

5116-9

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G4062 (10)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: The Acute Leukemia/MDS IHC panel is used to assess lineage and blast cell count in the context of AML, ALL and/or MDS diagnosis. The components of this panel include: CD3, CD10, CD20, CD34, CD56, CD61, CD79a, CD117, Glycophorin-A, HLA-DR, MPO and

TdT.

Ref Range: See Report

Adenocarcinoma vs. Mesothelioma IHC Panel

5181-3

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (8)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: The IHC panel is useful in the differential diagnosis between adenocarcinoma and mesothelioma. The components of this

panel include: BerEP4, Calretinin, CD68, CEAm, Desmin, GLUT-1, MOC31, Napsin A and TTF-1.



AE1/AE3- TC Only 5108-6

Alternate Name: AE1/AE3 (Stain Only)

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461-TC (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day Ref Range: See Report

ALK by FISH A703-1

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88368 (2)

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Storage Instruction: Room Temp Turn Around Time: 3-5 days

Clinical Indication: The detection of EML4-ALK fusion is used as a screening assay to determine a lung cancer patient's eligibility for

crizotinib, a tyrosine kinase inhibitor.

Ref Range: See Report

ALK by FISH (FDA) A241-2

Alternate Name: ALK Status Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88368 (2)

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: FISH for EML4-ALK is used to detect the presence of a fusion gene that can be targeted with an FDA approved tyrosine kinase inhibitor, crizotinib. All NSCLC adenocarcinoma patients can be tested for EML4-ALK but clinicopathologic features favor patients with little to no smoking history and those that are younger. CAP guidelines recommend EGFR and ALK testing in advanced stage adenocarcinoma regardless of sex, smoking history, and other clinical factors. Expert concensus opinion written in the CAP guidelines recommend EGFR and ALK testing for all stages of adenocarcinoma. ALK by FISH can also be used to confirm a diagnosis of Anaplastic Large Cell Lymphoma (ALCL) because it covers ALK1 status.

Ref Range: See Report

ALK by FISH- TC Only

B236-1

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88367-TC (2) Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: FISH for EML4-ALK is used to detect the presence of a fusion gene that can be targeted with an FDA approved tyrosine kinase inhibitor, crizotinib. All NSCLC adenocarcinoma patients can be tested for EML4-ALK but clinicopathologic features favor patients with little to no smoking history and those that are younger. CAP guidelines recommend EGFR and ALK testing in advanced stage adenocarcinoma regardless of sex, smoking history, and other clinical factors. Expert concensus opinion written in the CAP guidelines recommend EGFR and ALK testing for all stages of adenocarcinoma. ALK by FISH can also be used to confirm a diagnosis of Anaplastic Large Cell Lymphoma (ALCL) because it covers ALK1 status.

Ref Range: See Report

ALK by IHC - TC Only

B603-2

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88342-TC (1)

Alternate Specimen: Unstained Slide

Specimen Comment: *Provide Source* Will also accept 2 unstained slides form FFPE tissue.

Storage Instruction: Room Temp **Turn Around Time**: 1 day

Clinical Indication: The detection of EML4-ALK protein overexpression is used as a screening assay to determine a lung cancer patient's

eligibility for crizotinib, a tyrosine kinase inhibitor.



ALL Prognosis Panel by FISH

P260-3

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (3)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Components: BCR/ABL, MLL, 11q23

Clinical Indication: Used to detect common genetic aberrations in B-cell Lymphoblastic Leukemia/Lymphoma.

Ref Range: See Report

Alpha Fetoprotein, Tumor Marker (AFP)

0025-7

Alternate Name: AFP, Tumor Marker Methodology: Chemiluminescence Preferred Specimen: 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 82105 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Alpha Fetoprotein marker is used in the management of hepatocellular carcinoma and germ cell tumors.

Ref Range: <8.4 ng/mL

AML - CEBPA Mutational Analysis

8860-9

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81403 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Peripheral Blood - Green Top Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate Turn Around Time: 3-4 days

Clinical Indication: In the context of normal cytogenetics AML patients with biallelic CEBPA mutations have a favorable prognosis. Risk

adopted treatment strategies can be adopted for such patients.

Ref Range: See Report

AML - M2 (AML/ETO) (RUNX1/RUNX1T1) by FISH

5024-5

Alternate Name: Acute Myeloid Leukemia with t(8;21)

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate Turn Around Time: 3 days

Clinical Indication: FISH for t(8;21) is both diagnostic and prognostic for AML. AML patients with translocations between chromosomes 8 and 21 are a specific WHO subset defined as AML/ETO. Approximately 5-12% of all AML patients share a t(8;21) mutation which is regarded as a

favorable prognostic marker. **Ref Range:** See Report

AML - M2 (AML/ETO) (RUNX1/RUNX1T1) by RT-PCR

5034-4

Alternate Name: Acute Myeloid Leukemia with t(8;21)

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81401 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Peripheral Blood - Green Top Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Turn Around Time: 2 days

Clinical Indication: Serial monitoring of patients for minimal residual disease and determine treatment efficacy.



AML - M3 (PML/RARA) by FISH

5260-5

Alternate Name: Acute Promyelocytic Leukemia with t(15;17)

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367 (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate
Turn Around Time: 3 days

Clinical Indication: FISH for the detection of translocation between the PML and RARA genes is used for diagnostic and therapeutic management. The WHO defines patients with t(15;17)(q22;q12) as a subset of AML that is associated with favorable prognosis.

Ref Range: See Report

AML - M3 (PML/RARA) by RT-PCR

5261-3

Alternate Name: Acute Promyelocytic Leukemia with t(15;17)

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81315 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Peripheral Blood - Green Top Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 2-3 days

Clinical Indication: RT-PCR for PML/RARA has a similar utility as the FISH assay. However, RT-PCR has a lower limit of detection and is

useful for serial monitoring of patients for MRD.

Ref Range: See Report

AML - M4 & M5 by FISH

5427-0

Alternate Name: MLL, 11q23

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Clinical Indication: AML patients with 11q23 rearrangement define a specific WHO subcategory of AML. These patients typically have monocytic features and comprise 5-6% of all AML patients. AML with 11q23 is more common in children. It is typically a poor prognostic factor.

Ref Range: See Report

AML - M4Eo inv(16) by FISH

5025-2

Alternate Name: Acute Myelomonocytic Leukemia with Eosinophilia

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Clinical Indication: FISH to detect the inversion of chromosome 16 is diagnostic and prognostic for patients with Acute Myelomonocytic

Leukemia. AML patients with inversion 16 have a more favorable prognosis than those with normal karyotype.



AML - M4Eo inv(16) by PCR

5035-1

Alternate Name: Acute Myelomonocytic Leukemia with Eosinophilia

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81401 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate
Turn Around Time: 4 days

Clinical Indication: RT-PCR testing for chromosme 16 inversion has similar utility to that of the FISH assay but can be additively used for MRD

and monitoring of treatment effectiveness.

Ref Range: See Report

AML Diagnostic Panel by FISH

P261-1

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (8)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate Turn Around Time: 3 days

Components: BCR/ABL, MLL, 11q23, AML1/ETO,t(8;21), FISH, PML/RARA,t(15;17),FISH, CBFB/MYH11 (inv16), FISH

Clinical Indication: Comprehensive FISH panel that interrogates all common chromosome abnormalities for accurate WHO subset

classification.

Ref Range: See Report

AML Prognostic Panel: FLT3 & NPM1

5988-1

Alternate Name: AML Prognostic Panel

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81245 (1), 81310 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 4-7 days

Components: FLT-3 MUTATION, NPM1 MUTATION ANALYSIS

Clinical Indication: Panel used as predictors for risk stratification for patients with AML.

Ref Range: See Report

AML-M3(PML/RARA) by FISH-TC Only

A881-5

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Clinical Indication: Diagnostic assay for the detection of translocation between PML and RARA genes. Patients positive for t(15;17) represent

a WHO defined subset whose prognosis is favorable and are managed accordingly.

Ref Range: See Report

AML: NPM1 Mutation Analysis

5269-6

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81310 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top,Peripheral Blood - Green Top Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 3-4 days

Clinical Indication: Prognostic indicator for patients with AML. It is recommended that FLT3 be run before ordering NPM1.

Ref Range: See Report

A7



Anti-Thyroglobulin Antibody (ATA)

0041-4

Alternate Name: Thyroglobulin Antibody Methodology: Chemiluminescence Preferred Specimen: 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 86800 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Detect and confirm autoimmune thyroiditis, Hashimoto's thyroiditis.

Ref Range: <or=40 IU/mL

Antinuclear Antibody (ANA)

0038-0

Alternate Name: ANA; FANA

Methodology: Indirect Fluorescence Assay
Preferred Specimen: 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 86038 (1)
Alternate Specimen: Microtainer - Pediatric SST,Aliquot Tube-Serum,Red Top,Microtainer - Pediatric Red

Specimen Comment: Positive result will reflex to ANA TITER-3185 at additional charge

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Clinical Indication: Used to screen for certain autoimmune disorders, such as systemic lupus erythematosus (SLE) and others.

Ref Range: Neg=<1:80

Antistreptolysin O (ASO) Titer

0042-2

Alternate Name: ASO

Methodology: Immunoturbidometric
Preferred Specimen: 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 86060 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 2 days

Clinical Indication: Used to assess whether a person has had a recent streptococcal infection.

Ref Range: See Report

Automated UroVysion By FISH

5030-2

Methodology: FISH

Preferred Specimen: 50 mL ThinPrep Cytolyte Solution CPT Code: 88121 (1)

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: For help detecting and monitoring bladder cancer (urothelial or transitional cell carcinoma).

Ref Range: See Report

B-Cell, IGH by FISH

5032-8

Alternate Name: IGH, B-cell Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: Useful for assessment of B-cell clonality, as seen in B-cell lymphoma.



B-Cell, IGH by PCR

5278-7

Alternate Name: IgH Gene Rearrangement

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81261 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Tissue in RPMI, Formalin-fixed, Paraffin-embedded Tissue, Peripheral Blood -

Green Top

Storage Instruction: Refrigerate **Turn Around Time:** 3-4 days

Clinical Indication: Useful for assessment of B-cell clonality, as seen in B-cell lymphoma.

Ref Range: See Report

BCL1, BCL2, BCL6 (FISH Panel)

5273-8

Alternate Name: FISH Panel: t(11;14), t(14;18), 3q27, t(8;14)

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (5)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Components: BCL1,t(11;14),FISH, BCL-2,t(14;18),FISH, LG.CELL LYMPHOMA(BCL-6)FISH

Clinical Indication: Useful for assessment of Non-Hodgkin Lymphoma.

Ref Range: See Report

BCL1/IGH (CCND1/IGH) by FISH

5026-0

Alternate Name: t(11;14), CCND1, CYCLIN D1

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: Useful for assessment of Mantle cell lymphoma and as a prognostic indicator for plasma cell myeloma.

Ref Range: See Report

BCL1/IGH (CCND1/IGH) by FISH-TC Only

A873-2

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: Prognostic for patients with Plasma Cell Myeloma. Commonly ordered through the Multiple Myeloma FISH panel (TC

Only), P961-6.

Ref Range: See Report

BCL2/IGH by FISH

5270-4

Alternate Name: t(14;18) **Methodology:** FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: Useful for assessment of follicle center lymphomas.



BCL2/IGH by PCR 5271-2

Alternate Name: t(14;18), Follicular Lymphoma

Preferred Specimen: 2 Bone Marrow - Lavender Top

CPT Code: 81402 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Tissue in RPMI **Specimen Comment:** Ship with cold pack during warm weather.

Storage Instruction: Refrigerate **Turn Around Time:** 5 days

Clinical Indication: Useful for assessment of follicle center lymphomas.

Ref Range: See Report

BCL2/IGH: t(14;18) by FISH- TC Only

B350-0

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: Useful for assessment of follicle center lymphomas.

Ref Range: See Report

BCL6 by FISH 5028-6

Alternate Name: DLBCL; BCL6, 3q27

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: Useful for assessment of Diffuse Large B-cell Lymphoma (DLBCL) and Follicular Lymphoma (FL). BCL6 3q27 is found in

up to 35% of DLBCL and 6-14% of FL.

Ref Range: See Report

BCL6: 3q27 by FISH- TC Only

B348-4

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI **Specimen Comment:** Please include specimen collection date on requisition

Storage Instruction: Refrigerate
Turn Around Time: 3-5 days

Clinical Indication: Useful for assessment of Diffuse Large B-cell Lymphoma (DLBCL) and Follicular Lymphoma (FL). BCL6 3q27 is found in

up to 35% of DLBCL and 6-14% of FL.

Ref Range: See Report

BCR/ABL by FISH-TC Only

A880-7

Methodology: FISH

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88367-TC (2)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Clinical Indication: FISH for BCR/ABL is used to diagnose CML, is a prognostic indicator for B-cell Lymphoblastic Leukemia/Lymphoma, and is used to monitor patients response to tyrosine kinase inhibitor therapy. Before initiating treating with a TKI it may be helpful to order ABL

Kinase analysis in order to better inform on which TKI to utilize.



BCR/ABL Quantification by RT-PCR

5858-6

Alternate Name: BCR/ABL for CML Monitoring, Philadelphia Chromosome Analysis

Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top CPT Code: 81206 (1), 81207 (1)

Alternate Specimen: 2 mL Bone Marrow - Lavender Top, Green top, Microtainer - Pediatric Green Top, Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate
Turn Around Time: 2 days

Clinical Indication: The detection of BCR/ABL by RT-PCR has similar utility as the FISH assay. However, RT-PCR is generally used for MRD

and response to tyrosine kinase inhibitor therapy due to its greater sensitivity, approximately .01%.

Ref Range: See Report

BCR/ABL: t(9;22) by FISH

5265-4

Alternate Name: Philadelphia Chromosome Analysis

Methodology: FISH

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88367 (2)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Clinical Indication: FISH for BCR/ABL is used to diagnose CML, is a prognostic indicator for B-cell Lymphoblastic Leukemia/Lymphoma, and is used to monitor patient response to tyrosine kinase inhibitor therapy. Before initiating treating with a TKI it may be helpful to order ABL Kinase

analysis in order to better inform on which TKI to utilize.

Ref Range: See Report

Beta-2-Microglobulin, Serum

0262-6

Alternate Name: B2-Microglobulin, Serum
Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube CPT Code: 82232 (1)
Alternate Specimen: Red Top,Microtainer - Pediatric SST,Aliquot Tube-Serum,Microtainer - Pediatric Red

Storage Instruction: Refrigerate
Turn Around Time: 1 day

Clinical Indication: Beta-2 microglobulin has prognostic utility and can be used as a tumor marker for plasma cell myeloma, lymphoma, and

CLL.

Ref Range: <2.16 mg/L

Beta-2-Microglobulin, Urine, Random

1754-1

Alternate Name: B2-Microglobulin, Urine, Random

Methodology: Chemiluminescence
Preferred Specimen: 4 mL Urine Cup

Preferred Specimen: 4 mL Urine Cup

CPT Code: 82232 (1)

Alternate Specimen: Cup-other (source required), Urine Urinalysis Tube - Yellow, Urine tube without preservative

Specimen Comment: use NaOH to adjust PH to 6-8 (ship cold).

Turn Around Time: 2 days

Clinical Indication: Evaluate the severity and prognosis of multiple myeloma, chronic lymphocytic leukemia, or non-Hodgkin's lymphoma;

detect kidney damage and distinguish between glomerular and tubular kidney disorders.

Ref Range: <0.300 mg/L

Bone Marrow Morphology

5199-5

Methodology: Morphology

Preferred Specimen: Core in Formalin CPT Code: 88313 (4), 88311 (1), 85097 (1), 88305 (2)

Alternate Specimen: Clot in Formalin

Specimen Comment: Submit core/clot in formalin. Send smear in slide holder.

Turn Around Time: 1-2 days

Clinical Indication: Bone marrow analysis is used to detect the presence of neoplasia in the bone marrow and as the primary means for the

classification of most hematological malignancies.



Bone Marrow Morphology - Clot Only

5202-7

Methodology: Morphology

Preferred Specimen: Clot in Formalin CPT Code: 88305 (1), 88313 (2)

Turn Around Time: 1-2 days

Clinical Indication: Bone marrow analysis is used to detect the presence of neoplasia in the bone marrow and as the primary means for the

classification of most hematological malignancies.

Ref Range: See Report

Bone Marrow Morphology - Core Only

5200-1

Methodology: Morphology

Preferred Specimen: Core in Formalin **CPT Code:** 88305 (1), 88313 (2), 88311 (1)

Turn Around Time: 1-2 days

Clinical Indication: Bone marrow analysis is used to detect the presence of neoplasia in the bone marrow and as the primary means for the

classification of most hematological malignancies.

Ref Range: See Report

Bone Marrow Morphology - Smears

5211-8

CPT Code: 88313 (1), 85097 (1)

CPT Code: 88321 (1)

Methodology: Morphology

Preferred Specimen: Smear(s) in Slide Carrier

Turn Around Time: 1-2 days

Clinical Indication: Bone marrow analysis is used to detect the presence of neoplasia in the bone marrow and as the primary means for the

classification of most hematological malignancies.

Ref Range: See Report

Bone Marrow Slide Consult

5207-6

Methodology: Morphology

Preferred Specimen: Smear(s) in Slide Carrier

Turn Around Time: 1-2 days

Clinical Indication: Bone marrow analysis is used to detect the presence of neoplasia in the bone marrow and as the primary means for the

classification of most hematological malignancies.

Ref Range: See Report

Bone Marrow Smear Interpretation

5285-2

Methodology: Morphology

Preferred Specimen: Smear(s) in Slide Carrier CPT Code: 85097 (1)

Specimen Comment: Submit bone marrow smear.

Turn Around Time: 2 days Ref Range: See Report

BRAF V600E 5893-3

Alternate Name: BRAF by Pyrosequencing

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81210 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 2-3 days

Clinical Indication: BRAF V600E/K mutational analysis is useful in the context of melanoma, colon cancer, thyroid cancer, and hairy cell leukemia. Melanoma patients, metastatic or unresectable, with V600E (and in some cases V600K) are eligible for treatment with tyrosine kinase inhibitor therapy. In colon cancer BRAF may be used as a screening assay for MSI high positive or unstable patients suspected of Lynch Syndrome. BRAF V600E can aid the diagnosis of papillary thyroid cancer (PTC) from cytology samples. It is specifically helpful in cases of undeterminate cytology. Numerous studies have shown BRAF to be associated with aggressive clinicopathologic features of PTC. It can also be used to confirm a diagnosis of hairy cell leukemia.



BRAF V600E (FDA) A566-2

Alternate Name: FDA companion diagnostic to vemurafenib

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81210 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather. Source and pathology report is required.

Turn Around Time: 2-3 days

Clinical Indication: BRAF V600E mutation by COBAS is an FDA approved companion diagnostic for the indication of vemurafenib in

metastatic or unresectable melanoma.

Ref Range: See Report

Breast Carcinoma, Marrow, IHC Micromets

5118-5

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Assess for bone marrow micrometastasis in breast cancer.

Ref Range: See Report

Breast Carcinoma, rule out Microinvasion

5176-3

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (3)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather. The components of this panel include: Calponin, CD10, p63 and SMM-

HWC.

Turn Around Time: 1 day

Clinical Indication: Used to rule out microinvasion.

Ref Range: See Report

Breast Carcinoma, rule out Microinvasion-TC Only

A952-4

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461-TC (1), G0462-TC (3)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Used to rule out microinvasion. The components of this panel include: Calponin, CD10, p63 and SMM-HWC.

Ref Range: See Report

Breast Carcinoma/Lymph Nodes/MM Metastasis

5170-6

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Assess for nodal metastatic carcinoma.

Ref Range: See Report

C-Reactive Protein (hs-CRP), High Sensitivity

3320-9

Alternate Name: C-RP, High Sensitivity Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube CPT Code: 86141 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report



CA 125, Serum 0536-3

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube

CPT Code: 86304 (1)

Alternate Specimen: Red Top,Microtainer - Pediatric SST,Aliquot Tube-Serum,Microtainer - Pediatric Red

Storage Instruction: Refrigerate
Turn Around Time: 2 days

Clinical Indication: Tumor marker used to monitor treatment of ovarian cancer and to detect possible recurrence.

Ref Range: <36.0 U/mL

CA 15-3, Serum 2130-3

Methodology: Chemiluminescence

Preferred Specimen: 1 mL Red Top

CPT Code: 86300 (1)

Alternate Specimen: SST Tube, Microtainer - Pediatric SST, Microtainer - Pediatric Red, Aliquot Tube-Serum

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Clinical Indication: Used to monitor the response to treatment of invasive breast cancer and detect recurrence of the disease.

Ref Range: <or=32.4 U/mL

CA 19-9, Serum 0535-5

Methodology: Chemiluminescence

Preferred Specimen: 2 mL Red Top

CPT Code: 86301 (1)

Alternate Specimen: SST Tube, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Clinical Indication: Used for the prognosis of pancreatic carcinoma.

Ref Range: <or=35.0 U/mL

CA 27.29, Serum 0823-5

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube

CPT Code: 86300 (1)

Alternate Specimen: Microtainer - Pediatric SST, Aliquot Tube-Serum, Red Top, Microtainer - Pediatric Red

Specimen Comment: RED-TOP ACCEPTABLE BUT SERUM MUST BE SEPARATED. DO NOT ADD AFTER 24 HRS.

Storage Instruction: Refrigerate
Turn Around Time: 2 days

Clinical Indication: For detection of breast cancer recurrence.

Ref Range: <or=38.6 U/mL

Calcium, Urine, 24 Hours 0359-0

Alternate Name: Ca, Urine, 24 Hours

Methodology: Colorimetry

Preferred Specimen: 10 mL Urine Container - 24hr CPT Code: 82340 (1)

Alternate Specimen: Urine Cup 24 hour, Urine Tube 24 hour Specimen Comment: No preservative required. Refrigerate.

Storage Instruction: Refrigerate Turn Around Time: 2 days

Clinical Indication: For diagnosis and monitoring of a wide range of disorders including disorders of protein, vitamin D, and diseases of bone,

kidney, parathyroid gland, or gastrointestinal tract

Ref Range: 100-300 mg/24hr



Carcinoembryonic Antigen (CEA)

0055-4

Alternate Name: CEA

Methodology: Chemiluminescence **Preferred Specimen:** 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 82378 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Intended for the in vitro quantitative determination of carcinoembryonic antigen in human serum and plasma

Ref Range: See Report

CBC w/Diff, Platelet Ct.

0053-9

Alternate Name: Complete Blood Count (CBC), Includes Differential and Platelets

Preferred Specimen: Lavender top- EDTA CPT Code: 85025 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Components: HCT, WBC, RBC, HGB, PLATELET COUNT, BANDS, ABS. COUNT

Clinical Indication: Broad assessment of white blood cell count with differential, red cell counts and indices, and platelet count.

Ref Range: See Report

Chlamydia trachomatis (CT), Urine, Probetec

2665-8

Methodology: PCR

Preferred Specimen: Urine Tube BD CPT Code: 87491 (1)

Alternate Specimen: Urine Cup, Urine tube without preservative

Specimen Comment: COLLECT FIRST MORNING URINE (NO PRESERVATIVES)

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: Negative

Chromosome Analysis

5250-6

Alternate Name: Cytogenetics, Karyotype

Methodology: Cytogenetics

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88237 (1), 88262 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition. Peripheral blood accepted only for leukemias.

Storage Instruction: Refrigerate Turn Around Time: 5-7 days

Clinical Indication: Cytogenetic analysis used to determine chromosomal abnormalities important in diagnosis of hematologic malignancies,

disease monitoring, and response to certain treatments.

Ref Range: See Report

Circulating Tumor Cells (CTC)

6237-2

Alternate Name: CTC for Prognostics (Breast, Colon, Prostate)

Methodology: Indirect Fluorescence Assay

Preferred Specimen: 7.5 mL Whole Blood - Cell Save Preservative Tube CPT Code: 86152 (1), 86153 (1)

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Clinical Indication: Measures number circulating tumor cells and can assess for residual disease.



Citrate, 24Hr. Urine 0021-6

Preferred Specimen: 4 mL Urine Container - 24hr CPT Code: 82507 (1)

Alternate Specimen: Urine Cup 24 hour, Urine Tube 24 hour

Specimen Comment: Record total volume, collection time interval, and pH on transport tube.

Storage Instruction: Refrigerate Turn Around Time: 3 days Ref Range: See Report

CK-903 for Prostate Cancer

5434-6

Alternate Name: CK-903, IHC

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day Ref Range: See Report

CK-903- TC Only 5404-9

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461-TC (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day Ref Range: See Report

CLL FISH Panel 5280-3

Methodology: FISH

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88368 (4)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate
Turn Around Time: 3-5 days

Components: p53, D13S319, ATM, +12

Clinical Indication: The CLL FISH panel is a comprehensive prognostic panel for treatment stratification.

Ref Range: See Report

CLL FISH Panel- TC Only

P962-4

Methodology: FISH

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88367-TC (4)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Components: TRISOMY 12 BY FISH-TC, 13Q14.3 BY FISH-TC ONLY, 17P13 BY FISH-TC ONLY, 11Q22.3 BY FISH-TC ONLY Clinical Indication: The CLL FISH panel is a comprehensive prognostic panel to allow for enhanced disease management.



CML: ABL Kinase Mutation Analysis

6290-1

Alternate Name: Gleevec Resistance, Imatinib Resistance

Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top CPT Code: 81401 (1)

Alternate Specimen: 2 mL Bone Marrow - Lavender Top, Peripheral Blood - Green Top

Storage Instruction: Refrigerate **Turn Around Time:** 3-4 days

Clinical Indication: Measures unfavorable response to Imatinib mesylate (Gleevec) in patients with CML. Assesses for ABL mutations,

including T315I, which may confer resistance to TKIs.

Ref Range: See Report

Colon DNA Mismatch Repair Reflex

P264-5

Alternate Name: MMR by IHC reflex to MLH1 by Hypermethylation

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81301 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather. Please provide a copy of the pathology report.

Turn Around Time: 3 days

Components: MICRO SATELLITE INSTABILITY

Clinical Indication: Useful in the assessment of Lynch Syndrome.

Ref Range: See Report

Colon Reflex Dx B365-8

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81301 (1), 81275 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: Testing algorithm designed to provide a comprehensive analysis of common colon cancer genetic abnormalities. KRAS and MSI testing are performed to detect abnormalities that affect treatment decision; tyrosine kinase inhibitor therapy and chemotherapy, respectively. The latter half of the algorithm is intended to rule out Lynch Syndrome. KRAS and MSI with a reflex to BRAF and MLH1 to screen for Lynch Syndrome.

Ref Range: See Report

Complement C3, Serum

0532-2

Alternate Name: C3, Serum

Methodology: Immunoturbidometric **Preferred Specimen:** 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 86160 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate
Turn Around Time: 1 day

Clinical Indication: Used in the diagnosis of C3 deficiency and investigation of a patient with a low to absent total complement (CH[50]) level.

Ref Range: 90-180 mg/dL

Complement C4, Serum

0533-0

Alternate Name: C4, Serum

Methodology: Immunoturbidometric
Preferred Specimen: 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 86160 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day

Clinical Indication: Used in the diagnosis of C4 deficiency and investigation of a patient with a low to absent total complement (CH[50]) level.

Ref Range: 10-40 mg/dL



Comprehensive Metabolic Panel (CMP)

3427-2

Preferred Specimen: 1 mL SST Tube CPT Code: 80053 (1)

Alternate Specimen: Aliquot Tube-Serum, Microtainer - Pediatric SST

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Components: Total Protein, Albumin, Calcium, Creatinine, Bilirubin, Total, Alk Phos, AST, Sodium, Potassium, Chloride, CO2, BUN, Glucose,

ALT

Clinical Indication: For determining status of kidneys, liver, electrolytes, acid/base balance and blood sugar and protein levels.

Ref Range: See Report

Comprehensive Slide Consult

5256-3

Methodology: Morphology

Preferred Specimen: Smear(s) in Slide Carrier CPT Code: 88325 (1)

Turn Around Time: 1-2 days
Clinical Indication: Slide consultation
Ref Range: See Report

Comprehensive Urine Pathology

5324-9

Alternate Name: UroVysion and Urine Cytology

Methodology: FISH, Cytology

Preferred Specimen: 50 mL Voided Urine - Urocyte Collection Kit CPT Code: 88121 (1), 88112 (1)

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: To aid in the diagnosis of bladder cancer.

Ref Range: See Report

Comprehensive Urine Pathology- TC Only

0086-9

Alternate Name: UroVysion and Urine Cytology- TC Only

Methodology: FISH, Cytology

Preferred Specimen: 50 mL Voided Urine - Urocyte Collection Kit, ThinPrep Cytolyte CPT Code: 88121-TC (1), 88112-TC (1)

Solution

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: To aid in the diagnosis of bladder cancer.

Ref Range: See Report

Coombs Test, Direct

0064-6

Alternate Name: Direct Coombs

Preferred Specimen: Pink Tube-EDTA CPT Code: 86880 (1)

Alternate Specimen: Microtainer - Pediatric Lavender, Lavender top- EDTA, Yellow top- ACD

Specimen Comment: Submit an extra lavender top tube if ordering CBC.

Storage Instruction: Refrigerate Turn Around Time: 1 day

Clinical Indication: To detect antibodies bound to red cells in autoimmune or allo-immune hemolytic anemia.

Ref Range: Negative

Cortisol, Serum, Random

0900-1

Alternate Name: Compound F, Serum, Random; Hydrocortisone, Serum, Random

Methodology: Chemiluminescence **Preferred Specimen:** 1 mL Red Top

Preferred Specimen: 1 mL Red Top CPT Code: 82533 (1)

Alternate Specimen: Microtainer - Pediatric SST, Aliquot Tube-Serum, SST Tube, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 2 days Ref Range: 2.5-25.0 ug/dL



Creatinine Clearance, Urine, 24 Hours

0072-9

Preferred Specimen: 2 mL SST Tube, Urine Container - 24hr CPT Code: 82575 (1)

Specimen Comment: Provide total volume on requisition and on container

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Components: CREATININE, URINE 24 HR, Creatinine, CREAT. URN. 24HR (mg/dL)

Ref Range: See Report

Culture, Blood 0341-8

Alternate Name: Blood Culture Methodology: Bacterial Culture

Preferred Specimen: Blood Culture Bottles-Aerobic/Anaerobic CPT Code: 87040 (1)

Alternate Specimen: Yellow top- SPS

Specimen Comment: Observe Aerobic/Anerobic Collection instructions

Storage Instruction: Room Temp **Turn Around Time:** 6 days

Clinical Indication: Isolate and identify potentially pathogenic organisms causing bacteremia.

Ref Range: See Report

Culture, Urine 0080-2

Alternate Name: Urine Culture Methodology: Bacterial Culture

Preferred Specimen: 10 mL Urine Container-Boricult CPT Code: 87086 (1)

Alternate Specimen: Urine Tube - Grey Top, Urine Cup, Urine tube without preservative

Storage Instruction: Refrigerate Turn Around Time: 4 days Ref Range: No Growth

Culture, Wound, Aerobic Only

0082-8

Alternate Name: Wound, Aerobic Only, Culture

Methodology: Bacterial Culture **Preferred Specimen:** Swab-E

Preferred Specimen: Swab-E

CPT Code: 87205 (1), 87077 (1), 87075 (1)

Alternate Specimen: Swab-Bacterial Culture, Cup-other (source required), Swab-Amies with Charcoal-Black, Other (forced comment)?

Turn Around Time: 5 days

Components: GRAM STAIN, WOUND CULTURE, AEROBIC, CULTURE, ANAEROBIC, WOUND

Ref Range: No Growth

CYP2C19 Pharmacogenomic (Plavix)

5847-9

Methodology: PCR

Preferred Specimen: 5 mL Lavender top- EDTA CPT Code: 81225 (1)

Storage Instruction: Refrigerate
Turn Around Time: 7 days

Clinical Indication: Measures response to the usual standard dose of clopidogrel and determines if patient requires alternate forms of anti-

platelet therapy.

Ref Range: See Report

CYP2D6 (NY Only): Tamoxifen Resistance

5296-9

Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top CPT Code: 81225

Storage Instruction: Refrigerate
Turn Around Time: 6-8 days

Clinical Indication: Assessment for efficacy of tamoxifen.



CYP2D6: Tamoxifen Resistance (non-NY only)

5287-8

Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top CPT Code: 81226 (1)

Storage Instruction: Refrigerate **Turn Around Time:** 7 days

Clinical Indication: Assessment for efficacy of tamoxifen.

Ref Range: See Report

Cytomegalovirus (CMV) Antibody, IgG

0400-2

Alternate Name: Cytomegalovirus Antibody, IgG

Methodology: Chemiluminescence
Preferred Specimen: 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 86644 (1)

Alternate Specimen: Red Top,Microtainer - Pediatric SST,Aliquot Tube-Serum,Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Clinical Indication: Aid in diagnosis of CMV infection.

Ref Range: Neg=<0.9

Cytomegalovirus (CMV) Antibody, IgM

0461-4

Alternate Name: Cytomegalovirus Antibody IgM **Methodology:** Enzyme Linked Immunoabsorbance

Preferred Specimen: 1 mL SST Tube CPT Code: 86645 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Clinical Indication: Aid in diagnosis of CMV infection.

Ref Range: <0.91

DNA Ploidy for Molar Pregnancy

5555-8

Methodology: Flow Cytometry

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88182 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Assess for Partial Hydatidiform Mole.

Ref Range: See Report

DNA Ploidy/S-Phase by Flow Cytometry

5575-6

Methodology: Flow Cytometry

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88182 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Prognostic indicator in breast cancer patients.

Ref Range: See Report

DPD 5-FU Genotype

6285-1

Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top CPT Code: 81400 (1)

Storage Instruction: Refrigerate **Turn Around Time:** 7 days

Clinical Indication: Partial or complete deficiency of DPD activity has been associated with an increased risk for severe adverse reactions when treated with pyrimidine-based chemotherapeutic agents, such as 5-fluorouracil (5-FU). The test can also be used to confirm the clinical diagnosis of dihydropyrimidine dehydrogenase (DPD) deficiency in affected patients and for the detection of the IVS14+1G>A mutation in asymptomatic carriers.



EBV Capsid Ab, IgG

0234-5

Alternate Name: Epstein-Barr Virus, IgG Methodology: Multiplex Flow Immunoassay

Preferred Specimen: 1 mL SST Tube CPT Code: 86665 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: <0.9 Al

EBV Capsid Ab, IgM

0580-1

Alternate Name: Epstein-Barr Virus, IgM Methodology: Multiplex Flow Immunoassay

Preferred Specimen: 1 mL SST Tube CPT Code: 86665 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: <0.9 Al

EBV, Early Antigen Ab

0582-7

Alternate Name: Epstein-Barr Virus Methodology: Multiplex Flow Immunoassay

Preferred Specimen: 1 mL SST Tube CPT Code: 86663 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: <0.9 Al

EBV, Nuclear Antigen Ab, IgG

0583-5

Alternate Name: Epstein-Barr Virus, IgG
Methodology: Multiplex Flow Immunoassay
Professed Specimen: 1 ml SST Tubo

Preferred Specimen: 1 mL SST Tube CPT Code: 86664 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: <0.9 Al

EGFR by PCR 5295-1

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81235 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 3-4 days

Clinical Indication: NCCN recommended test for assessment of the effectiveness of erlotinib and other TKI therapies.

Ref Range: See Report

EGFR by PCR if neg. reflex to ALK

A675-1

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81235 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 3-5 days

Clinical Indication: This test is used for patients with non-small-cell lung cancer, primarily adenocarcinoma histology, to determine appropriateness of tyrosine kinase inhibitor therapy. CAP guidelines recommend EGFR and ALK testing in advanced stage adenocarcinoma regardless of sex, smoking history, and other clinical factors. Expert concensus opinion written in the CAP guidelines recommend EGFR and ALK testing for all stages of adenocarcinoma.



Electrolytes, Serum 0002-6

Preferred Specimen: 2 mL SST Tube CPT Code: 80051 (1)

Alternate Specimen: Microtainer - Pediatric SST, Aliquot Tube-Serum

Specimen Comment: Do not use Red-top tube.

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Components: Sodium, Potassium, Chloride, CO2

Ref Range: See Report

Electrophoresis, Urine Protein (UPEP)

0404-4

Alternate Name: Protein Electrophoresis, Urine

Methodology: Electrophoresis

Preferred Specimen: 1 ml Urine Cu

Preferred Specimen: 1 mL Urine Cup CPT Code: 84166 (7), 84156 (1)

Alternate Specimen: Urine tube without preservative Specimen Comment: Use code Q069 for 24 hr urine.

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Components: M SPIKE, UPEP, PROTEIN, URN. TIMED/RAND

Clinical Indication: Detects urine albumin, urine alpha, urine beta, and urine gamma globulin fractions if present, including various patterns of

proteinuria (glomerular, tubular, Bence Jones monoclonal light chains).

Ref Range: See Report

EML4-ALK by IHC B565-3

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp
Turn Around Time: 1 day

Clinical Indication: The detection of EML4-ALK protein overexpression is used as a screening assay to determine a lung cancer patient's

eligibility for crizotinib, a tyrosine kinase inhibitor.

Ref Range: See Report

ER / PR - w/Interpretation

5198-7

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (2)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: IHC analysis of hormone receptors ER and PR are used for treatment stratification and to subtype breast carcinomas. Hormone directed therapies such as selective estrogen receptor modulators (SERMS) are appropriately utilized in the context of ER results.

Ref Range: See Report

ER / PR / DNA / Ki-67 - w/Interpretation

5160-7

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (3), 88182 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather. DNA testing by FLOW cytometry.

Turn Around Time: 1 day

Clinical Indication: IHC analysis of hormone receptors ER and PR are used for treatment stratification and to subtype breast carcinomas. DNA

and Ki-67 are are prognostic markers for disease progression.



ER / PR / Ki-67 / HER2- TC Only

5433-8

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (4)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship block with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Hormone receptor (ER/PR) and HER2 status in breast carcinoma at diagnosis has been established as a clinically useful standard of care parameter to determine treatment options and prediction of patient response. Accurate IHC analysis is critical to setting the appropriate treatment strategy for patients with breast carcinoma. Ki-67 is a cell proliferation marker used in breast carcinoma for prognosis prediction.

Ref Range: See Report

ER / PR / Ki-67/ HER2 - w/Interpretation

5163-1

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (4)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Hormone receptor (ER/PR) and HER2 status in breast carcinoma at diagnosis has been established as a clinically useful standard of care parameter to determine treatment options and prediction of patient response. Accurate IHC analysis of ER/PR/HER2 is critical to setting the appropriate treatment strategy for patients with breast carcinoma. Ki-67 is a cell proliferation marker used in breast carcinoma for prognosis prediction.

Ref Range: See Report

ER / PR / Ki-67 / HER2 (Tech Only), plus DNA (Global)

5131-8

Alternate Name: Breast Cancer IHC Tech Only: ER, PR, Ki-67, HER2, DNA (Global)

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (4), 88182 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather. DNA testing by FLOW cytometry.

Turn Around Time: 1 day

Clinical Indication: Hormone receptor (ER/PR) and HER2 status in breast carcinoma at diagnosis has been established as a clinically useful standard of care parameter to determine treatment options and prediction of patient response. Accurate IHC analysis of ER/PR/HER2 is critical to setting the appropriate treatment strategy for patients with breast carcinoma. Ki-67 is a cell proliferation marker used in breast carcinoma for prognosis prediction. DNA ploidy measures the amount of DNA content and proliferative activity (cell cycle/S-phase fraction) in analyzed tumor cells as predictors of prognosis.

Ref Range: See Report

ER / PR / DNA / Ki-67 / HER2 - w/Interpretation

5162-3

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (4), 88182 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather. DNA testing by FLOW cytometry.

Turn Around Time: 1 day

Clinical Indication: Hormone receptor (ER/PR) and HER2 status in breast carcinoma at diagnosis has been established as a clinically useful standard of care parameter to determine treatment options and prediction of patient response. Accurate IHC analysis of ER/PR/HER2 is critical to setting the appropriate treatment strategy for patients with breast carcinoma. Ki-67 is a cell proliferation marker used in breast carcinoma for prognosis prediction. DNA ploidy measures the amount of DNA content and proliferative activity (cell cycle/S-phase fraction) in analyzed tumor cells as predictors of prognosis.

Ref Range: See Report

ER / PR / DNA / Ki-67 / HER2 - Reflex to HER2 by FISH

5408-0

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (4), 88182 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather. DNA testing by FLOW cytometry.

Turn Around Time: 3-5 days

Clinical Indication: Comprehensive breast cancer profile that is useful for subtyping and treatment selection.



ER / PR / HER2 - w/Interpretation

5161-5

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (3)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Useful to determine appropriate treatment for breast cancer, hormonal therapy and targeted HER2 therapy.

Ref Range: See Report

ER / PR / HER2 - Reflex to HER2 by FISH

5406-4

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (3)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 3-5 days

Clinical Indication: Useful to determine appropriate treatment for breast cancer, hormonal therapy and targeted HER2 therapy.

Ref Range: See Report

ER / PR / HER2 FISH- TC Only

A277-6

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (2), 88367-TC (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Turn Around Time: 3 days

Clinical Indication: Useful to determine appropriate treatment for breast cancer, hormonal therapy and targeted HER2 therapy.

Ref Range: See Report

ER / PR / HER2- TC Only

5127-6

Alternate Name: Breast Cancer IHC Tech Only: ER, PR, HER2

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (3)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Useful to determine appropriate treatment for breast cancer, hormonal therapy and targeted HER2 therapy.

Ref Range: See Report

ER / PR / Ki-67 / p53 / HER2 FISH- TC Only

A278-4

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (4), 88367-TC (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Turn Around Time: 3 days

Clinical Indication: Comprehensive breast cancer profile that is useful for subtyping and treatment selection.

Ref Range: See Report

ER / PR / Ki-67 / HER2 - Reflex to HER2 by FISH

5407-2

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (4)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 3-5 days

Clinical Indication: Useful to determine appropriate treatment for breast cancer, hormonal therapy and targeted HER2 therapy. Ki-67 is a cell

proliferation marker used for prognosis in breast cancer.



ER / PR / Ki-67 / HER2 / p53, TC Only

A951-6

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (5)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Hormone receptor (ER/PR) and HER2 status in breast carcinoma at diagnosis has been established as a clinically useful standard of care parameter to determine treatment options and prediction of patient response. Accurate IHC analysis is critical to setting the appropriate treatment strategy for patients with breast carcinoma. Ki-67 is a cell proliferation marker used in breast carcinoma for prognosis prediction.

Ref Range: See Report

ER / PR / Ki-67- TC Only, plus DNA- Global

5129-2

Alternate Name: Breast Cancer IHC Tech Only: ER, PR, Ki67, DNA (Global)

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (3), 88182 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: IHC analysis of hormone receptors ER and PR are used to subtype breast carcinomas and for treatment selection. DNA

and Ki-67 are prognostic markers for disease progression.

Ref Range: See Report

ER / PR / Ki67 / p53 / HER2 FISH -TC Only plus DNA- Global

A276-8

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (4), 88367-TC (1), 88182 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition. DNA testing by FLOW

cytometry.

Turn Around Time: 3 days

Clinical Indication: Comprehensive breast cancer profile that is useful for subtyping and treatment selection.

Ref Range: See Report

ER / PR- TC Only 5425-4

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (2)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: IHC analysis of hormone receptors ER and PR are used to subtype breast carcinomas. Hormone directed therapies such

as selective estrogen receptor modulators (SERMS) are appropriately utilized in the context of ER results.

Ref Range: See Report

ERCC1 A300-6

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81479 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 5-7 days

Clinical Indication: ERCC1 mRNA expression is a prognosis marker and clinical biomarker for cisplatin-based chemotherapies in lung cancer.

Ref Range: See Report

A25



Erythropoietin, Serum

0183-4

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube

CPT Code: 82668 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate
Turn Around Time: 1 day

Clinical Indication: Low levels of EPO are associated with anemia of decreased cell production and Polycythemia vera. Elevated levels of

EPO are associated with anemia of increased red cell destruction.

Ref Range: 3.7-31.5 mIU/mL

Estradiol, Serum 0516-5

Alternate Name: 17 Beta-Estradiol, Free, Serum; 17 Beta-Estradiol, Free, Serum

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube

CPT Code: 82670 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report

Estrogen, Total, Serum

0562-9

Preferred Specimen: 3 mL SST Tube CPT Code: 82672 (1)

Alternate Specimen: Microtainer - Pediatric Red, Microtainer - Pediatric SST, Aliquot Tube-Serum, Red Top, Green top, Microtainer - Pediatric

Green Top, Aliquot Plasma Heparinized-green top, Aliquot Tube-Plasma

Storage Instruction: Refrigerate Turn Around Time: 5 days Ref Range: See Report

Factor V (R2) Polymorphism

5727-3

Methodology: PCR

Preferred Specimen: 4 mL Yellow top- ACD CPT Code: 81400 (1)

Alternate Specimen: 4 mL Lavender top- EDTA

Specimen Comment: Sendout Turn Around Time: 18 days Ref Range: See Report

Factor V Mutation (Leiden)

5726-5

Methodology: PCR

Preferred Specimen: 4 mL Lavender top- EDTA CPT Code: 81241 (1)

Alternate Specimen: Microtainer - Pediatric Lavender, 4 mL Yellow top- ACD

Storage Instruction: Refrigerate **Turn Around Time:** 5 days

Clinical Indication: This test is used to detect mutations in clotting factor V that may lead to an increased risk for deep vein thrombosis and

miscarriage.

Ref Range: See Report

Ferritin, Serum 0088-5

Methodology: Chemiluminescence **Preferred Specimen:** 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 82728 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate
Turn Around Time: 1 day

Clinical Indication: This test measures the level of ferritin, a primary iron storage in the body. Low levels of ferritin are indicative of iron

deficiency, a cause of anemia.



FLT3 Mutation Analysis

5178-9

Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top CPT Code: 81245 (1)

Alternate Specimen: 3 mL Bone Marrow - Green Top, Peripheral Blood - Green Top, 3 mL Bone Marrow - Lavender Top

Specimen Comment: Performed at LabPMM for NY and NON-NY

Storage Instruction: Refrigerate **Turn Around Time:** 3-7 days

Clinical Indication: FLT3 (fms-like tyrosine kinase 3) is a tyrosine kinase receptor expressed on hematopoietic progenitor cells and is important in stem cell survival and differentiation. FLT3 mutation is a poor prognostic marker in AML. It also has additional therapeutic utility as

a potential target for inhibitor therapy.

Ref Range: See Report

Folate, Serum 0090-1

Alternate Name: Folate Acid, Folic Acid Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube CPT Code: 82746 (1)

Alternate Specimen: Aliquot Tube-Serum,Red Top,Microtainer - Pediatric SST,Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Testing for folic acid is clinically useful to determine a possible cause of macrocytic anemia.

Ref Range: >5.38 ng/mL

Follicle Stimulating Hormone (FSH)

0092-7

Alternate Name: FSH

Methodology: Chemiluminescence **Preferred Specimen:** 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 83001 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report

Free Kappa & Lambda Light Chain (serum)

3893-5

Methodology: Immunoturbidometric
Preferred Specimen: 1 mL SST Tube

Storage Instruction: Refrigerate **Turn Around Time:** 4 days

Components: KAPPA FREE LIGHT CHAIN, LAMBDA FREE LIGHT CHAIN, KAPPA/LAMBDA RATIO

Clinical Indication: Useful in monitoring of Plasma Cell Myeloma.

Ref Range: See Report

GenArray Molecular Karyotyping

5306-6

Alternate Name: Array Comparative Genomic Hybridization (aCGH)

Methodology: Array CGH

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81406 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top

Storage Instruction: Refrigerate Turn Around Time: 3 days

Clinical Indication: Array CGH identifies aneusomal DNA copy number alterations (losses and gains of DNA) in myeloid, lymphoid, and plasma cell neoplasms. Copy number changes have significant diagnostic, prognostic, and therapeutic implications. Array CGH offers superior resolution to that of conventional cytogenetics and FISH for copy number change detection. In addition, Array CGH does not require metaphase analysis (dividing cells), overcoming the inherent limitation of required cell growth for lymphoid-derived neoplasms by cytogenetic analysis.

CPT Code: 83520 (2)



Germ Cell Tumor IHC Panel

5194-6

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (8)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of germ cell tumors. The components of this panel include: AFP, CAM 5.2, CD30, CD117, HCG,

Oct 3/4, PLAP, Podoplanin and SALL4.

Ref Range: See Report

GIST Profile 5175-5

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (5)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of gastrointestinal stromal tumors. The components of this panel include: Actin, CD34, CD117,

DOG-1, S100 and SMA. **Ref Range:** See Report

Gonorrhea (GC), Urine, Probetec

2666-6

Methodology: PCR

Preferred Specimen: Urine Tube BD CPT Code: 87591 (1)

Alternate Specimen: Urine Cup, Urine tube without preservative

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: Negative

Haptoglobin, Serum

0514-0

Methodology: Immunoturbidometric **Preferred Specimen:** 1 mL SST Tube

Preferred Specimen: 1 mL SST Tube CPT Code: 83010 (1)
Alternate Specimen: Red Top,Microtainer - Pediatric SST,Aliquot Tube-Serum,Microtainer - Pediatric Red

Specimen Comment: Avoid hemolysis Storage Instruction: Refrigerate Turn Around Time: 2 days

Clinical Indication: Used to assess intravascular hemolysis

Ref Range: 30-200 mg/dL

Helicobacter pylori, IgA

1766-5

Alternate Name: H. pylori, IgA

Methodology: Enzyme Linked Immunoabsorbance

Preferred Specimen: 1 mL SST Tube CPT Code: 86677 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 3 days

Clinical Indication: The detection of high titer of antibody IgA to Helicobacter pylori (H. pylori) is used to screen for active infection and cause of gastrointestinal disease. The presence of high titers of IgA only suggests infection and should be confirmed with other tests. High titers of both IgA and IgG antibodies to H. pylori may be considered to represent a chronic active infection.



Helicobacter pylori, IgG

1765-7

Alternate Name: H. pylori, IgG

Methodology: Enzyme Linked Immunoabsorbance

Preferred Specimen: 1 mL SST Tube CPT Code: 86677 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Clinical Indication: The detection of high titer of antibody IgG to Helicobacter pylori (H. pylori) is used to screen for active infection and cause of gastrointestinal disease. High titers of both IgA and IgG antibodies to H. pylori may be considered to represent a chronic active infection.

Ref Range: See Report

Helicobacter pylori, IgM

7736-2

Alternate Name: H. pylori, IgM

Methodology: Enzyme Linked Immunoabsorbance

Preferred Specimen: 1 mL SST Tube CPT Code: 86677 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate **Turn Around Time:** 3 days

Clinical Indication: The detection of IgM may be useful to determine causes of gastritis.

Ref Range: See Report

Hemoglobin A1C 0102-4

Alternate Name: Glycohgb, Glycated Hemoglobin

Methodology: Immunoturbidometric

Preferred Specimen: 0.5 mL Lavender top- EDTA CPT Code: 83036 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Storage Instruction: Refrigerate
Turn Around Time: 1 day

Clinical Indication: Diabetic monitoring.

Ref Range: <5.7 %

Hemoglobin Fractionation, HPLC

0216-2

Alternate Name: Hgb electro, S Solubility; Sickle Cell Conf., Hemoglobinopathy

Methodology: High Pressure Liquid Chromatography

Preferred Specimen: 1 mL Lavender top- EDTA CPT Code: 83021 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Storage Instruction: Refrigerate
Turn Around Time: 2 days

Components: Hb A, Hb A2, Hb F, Hb S, Hb C

Clinical Indication: Assesses for Beta-thalassemia and sickling hemoglobinopathies.

Ref Range: See Report

Hepatic Function Panel

3422-3

Preferred Specimen: 2 mL SST Tube CPT Code: 80076 (1)

Alternate Specimen: Aliquot Tube-Serum, Microtainer - Pediatric SST

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Components: Total Protein, Albumin, Bilirubin, Total, Alk Phos, AST, Bilirubin, Direct, ALT

Clinical Indication: For evaluating liver function.



Hepatocellular vs. Cholangiocarcinoma vs. Metastasis IHC Panel

5193-8

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (10)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Differential diagnosis between Hepatocellular, Cholangiocarcinoma and Gl/pulmonary metastasis. The components of this panel include: AFP, CA19.9, CAM 5.2, CDX2, CEAm, CK7, CK20, Glypican-3, Hepatocyte, PODXL-1 and TTF-1. Supplementary IHC may be

necessary for definitive characterization if metastatic disease is identified.

Ref Range: See Report

HER2 by IHC 5171-4

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: HER2 by IHC is used to set treatment strategics in breast carcinoma. Results may predict response to tyrosine kinase

inhibitor therapy. **Ref Range:** See Report

HER2 by FISH 5262-1

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88367 (2)

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: HER2 by FISH is used to determine prognosis and for predictive response to tyrosine kinase inhibitor therapy. FISH is

commonly used to confirm borderline IHC results and/or as an additional confirmation of HER2 status.

Ref Range: See Report

HER2 by FISH - Gastric/GEJ

A427-7

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88367 (2)

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: HER2 by FISH is used to predict response to tyrosine kinase inhibitor therapy. FISH is often used as secondary

confirmation for borderline 2+ cases.

Ref Range: See Report

HER2 by FISH for Gastric/GEJ-TC Only

A428-5

Alternate Name: Herceptin for Gastric

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue **CPT Code:** 88367-TC (2) **Specimen Comment:** Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: HER2 by FISH is used to predict response to tyrosine kinase inhibitor therapy. FISH is often used as secondary

confirmation for borderline 2+ cases.



HER2 by IHC - Reflex +2 to HER2 by FISH

5428-8

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 3-5 days

Clinical Indication: HER2 by IHC is used to set treatment strategics in breast carcinoma. Results may predict response to tyrosine kinase

inhibitor therapy. Borderline 2+ cases are automatically reflexed to FISH.

Ref Range: See Report

HER2 by IHC in Gastric/Gastroesophageal Carcinoma

A972-2

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: To assess for the indication of trastuzumab.

Ref Range: See Report

HER2 by IHC-TC Only

5405-6

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: HER2 by IHC is used to determine if patient is a candidate for trastuzumab therapy. Results may predict response to

tyrosine kinase inhibitor therapy. **Ref Range:** See Report

HER2 FISH-TC Only

5259-7

Alternate Name: HER2 by FISH: TC

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88367-TC (2)

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Turn Around Time: 3-5 days

Clinical Indication: HER2 by FISH is used to determine prognosis and for predictive response to tyrosine kinase inhibitor therapy. FISH is

commonly used to confirm borderline IHC results and/or as an additional confirmation of HER2 status.

Ref Range: See Report

Hereditary Hemochromotosis (HFE): C282Y, H63D, S65C

3420-7

Alternate Name: HFE-C282Y-H63D-S65C

Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top CPT Code: 81256 (1)

Storage Instruction: Refrigerate
Turn Around Time: 3-4 days

Clinical Indication: Interrogation of genes, C282Y, H63D, and S65C, that assess risk for hereditary hemochromotosis (HFE). HFE is a

common autosomal recessive disorder leading to the excessive accumulation of iron in the parenchymal organs.



HIV-1/HIV-2 Antibody Screen

0360-8

Alternate Name: HIV 1/2 Ab

Methodology: Chemiluminescence

Preferred Specimen: 1 ml SST Tub

Preferred Specimen: 1 mL SST Tube

CPT Code: 86703 (1)

Alternate Specimen: Microtainer - Pediatric SST,Red Top,Microtainer - Pediatric Red,Aliquot Tube-Serum

Specimen Comment: Positive result will auto-reflex to 0625-HIV WB at additional charge

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: Negative

HLA-B27 0375-6

Methodology: Flow Cytometry

Preferred Specimen: 5 mL Green top CPT Code: 86812 (1)

Alternate Specimen: Lavender top- EDTA, Yellow top- ACD, Microtainer - Pediatric Green Top, Microtainer - Pediatric Lavender

Storage Instruction: Refrigerate Turn Around Time: 3 days Ref Range: Negative

Hodgkin Lymphoma IHC Panel

5101-1

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (8)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Refrigerate Turn Around Time: 1 day

Clinical Indication: Differential diagnosis between NHL and Hodgkin Lymphoma (HL). The components of this panel include: CD3, CD15,

CD20, CD30, CD45, CD79a, EBV, Fascin and PAX-5.

Ref Range: See Report

HPV High by ISH 8714-8

Methodology: In Situ Hybridization

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88365 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Unstained slides on Fisherbrand Superfrost PLUS microscope slides ONLY

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of high risk Human Papillomavirus

Ref Range: Negative

HPV High by ISH-TC Only

8689-2

Methodology: In Situ Hybridization

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88365-TC (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Unstained slides on Fisherbrand Superfrost PLUS microscope slides ONLY

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of high risk Human Papillomavirus

Ref Range: See Report

HPV High/Low by ISH-TC Only

8696-7

Methodology: In Situ Hybridization

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88365-TC (2)

Alternate Specimen: Unstained Slide

Specimen Comment: Unstained slides on Fisherbrand Superfrost PLUS microscope slides ONLY

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of low and high risk Human Papillomavirus



HPV High/Low Risk by ISH

3412-4

Methodology: In Situ Hybridization

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue **CPT Code:** 88365 (2)

Alternate Specimen: Unstained Slide

Specimen Comment: Unstained slides on Fisherbrand Superfrost PLUS microscope slides ONLY

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of low and high risk Human Papillomavirus

Ref Range: Negative

Human Chorionic Gonadotropin (HCG), Quantitative, Tumor Marker

1201-3

Alternate Name: hCG, Quantitative, Tumor Marker

Methodology: Chemiluminescence Preferred Specimen: 1 mL SST Tube

CPT Code: 84702 (1) Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report

IgH/TCR-GAMMA by PCR

5080-7

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top **CPT Code:** 81342 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Tissue in RPMI

Storage Instruction: Refrigerate Turn Around Time: 1-2 days

Components: TCR-gamma, PCR, IGH, PCR

Clinical Indication: IgH assesses B-cell clonality, while TCR-gamma is used to assess for T-cell clonality.

Ref Range: See Report

IgVH Mutation Analysis

5223-3

Alternate Name: IgVH Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top **CPT Code:** 81263 (1)

Alternate Specimen: 2 mL Bone Marrow - Lavender Top, Peripheral Blood - Green Top

Storage Instruction: Refrigerate Turn Around Time: 1 day

Clinical Indication: Prognostic marker for patients with CLL. Hypermutated IgVH is a favorable prognostic indicator in CLL.

Ref Range: See Report

Immunofixation, Serum

0413-5

Preferred Specimen: 1 mL SST Tube **CPT Code:** 86334 (1) Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Specimen Comment: Replaces Immunoelectrophoresis

Storage Instruction: Refrigerate Turn Around Time: 4 days

Clinical Indication: Immunofixation is used to characterize an abnormal population of monoclonal immunoglobulin proteins, or an M-spike,

usually associated with a plasma cell myeloma.

Ref Range: Negative



Immunofixation, Urine, Random

1644-4

Alternate Name: Bence Jones Protein Methodology: Electrophoresis Preferred Specimen: 9 mL Urine Cup

CPT Code: 86335 (1)

Alternate Specimen: Urine Container - 24hr, Urine tube without preservative, Urine Urinalysis Tube - Yellow, Urine Cup 24 hour, Urine Tube 24

hour

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Clinical Indication: Immunofixation is used to characterize an abnormal population of monoclonal immunoglobulin proteins and/or free light

chains (Bence Jones proteins) in the urine, usually associated with plasma cell myeloma.

Ref Range: Negative

Immunoglobulins, Serum

0520-7

Methodology: Immunoturbidometric

Preferred Specimen: 1 mL SST Tube

CPT Code: 82784 (3)

Alternate Specimen: Red Top, Microtainer - Pediatric Red, Microtainer - Pediatric SST, Aliquot Tube-Serum

Storage Instruction: Refrigerate Turn Around Time: 1 day

Components: IgG, SERUM, IgM, SERUM, IgA, SERUM

Ref Range: See Report

Iron + TIBC 0250-1

Preferred Specimen: 2 mL SST Tube CPT Code: 83540 (1), 83550 (1)

Alternate Specimen: Microtainer - Pediatric SST, Aliquot Tube-Serum

Storage Instruction: Refrigerate Turn Around Time: 1 day Components: Iron, TIBC

Clinical Indication: Assess iron stores and transferrin. See ferritin test.

Ref Range: See Report

JAK2 Exon 12 5307-4

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81403 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Peripheral Blood - Green Top

Storage Instruction: Refrigerate **Turn Around Time:** 4 days

Clinical Indication: Useful for assessment of Polycythemia vera in patients who are JAK2 V617F-negative.

Ref Range: See Report

JAK2 V617F 5157-3

Alternate Name: JAK2 V617 in Myeloproliferative Neoplasms

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81270 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Peripheral Blood - Green Top

Turn Around Time: 2 days

Clinical Indication: Assess for non-CML Chronic Myeloproliferative Neoplasms (Essential Thrombocythemia, Polycythemia vera,

Myelofibrosis).

Ref Range: See Report

Ki-67 by IHC 5152-4

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Assess tumor cell proliferation.

CPT Code: 88361-TC (1)



Ki-67 by IHC-TC Only

A346-9

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp Turn Around Time: 1 day

Clinical Indication: To assess for proliferation in breast cancer.

Ref Range: See Report

KIT (D816V) by PCR

5179-7

Alternate Name: Systemic Mastocytosis

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81402 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top

Specimen Comment: Please include specimen collection date on requisition, Time Sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 3-4 days

Clinical Indication: Systemic mastocytosis is characterized by the infilitration of clonal mast cells in the bone marrow, tissue, liver, and skin. Mutational testing for KIT D816V is a diagnostic tool for systemic mastocytosis because the majority of confirmed diagnoses harbor this mutation. Bone marrow evaluation is the primary diagnostic tool for systemic mastocytosis and provides the most reliable prognosis. Patients that harbor the KIT mutation exhibit resistance to tyrosine kinase inhibitor therapy, such as imatinib. When KIT is mutated in the presence of RUNX1 the patient prognosis is unfavorable.

Ref Range: See Report

KIT/PDGFRA for GIST by PCR

A344-4

Alternate Name: KIT for Imatinib Resistance

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81404 (1)

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp **Turn Around Time:** 5-7 days

Clinical Indication: KIT mutations in exons 9 and 11 are present in ~85% of GIST patients. This test is helpful to determine patient response to imatinib. Patients with PDGFRA mutations are more likely to respond to imatinib while secondary KIT mutations in exons 13, 14, 17, and 18 are common in patients with acquired imatinib resistance.

Ref Range: See Report

KRAS 5288-6

Alternate Name: KRAS Gene Mutation

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81275 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 2-3 days

Clinical Indication: Assessment for resistance to tyrosine kinase inhibitor therapy, used primarily in lung and colon cancer.

Ref Range: See Report

KRAS if Negative Reflex to BRAF

5891-7

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81275 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 3-4 days

Clinical Indication: Assessment for resistance to tyrosine kinase inhibitor therapy used in colon cancer.



Lactate Dehydrogenase (LDH), Serum

0117-2

Alternate Name: Lactic Acid Dehydrogenase; LD; LDH

Methodology: UV

Preferred Specimen: 2 mL SST Tube CPT Code: 83615 (1)

Alternate Specimen: Microtainer - Pediatric SST, Aliquot Tube-Serum

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Helpful in the diagnostic and prognostic assessment for hematological malignancies.

Ref Range: 135-225 U/L,135-214 U/L

Lipid Panel 0009-1

Alternate Name: Basic Lipid Panel; Lipid Screen

Preferred Specimen: 2 mL SST Tube CPT Code: 80061 (1)

Alternate Specimen: Microtainer - Pediatric SST, Aliquot Tube-Serum

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Components: Cholesterol, HDL CHOL., DIRECT, Triglycerides

Ref Range: See Report

Low-density lipoprotein (LDL) Direct

2194-9

Alternate Name: LDL Direct

Methodology: Enzyme Immunoassay
Preferred Specimen: 1 mL SST Tube

Alternate Specimen: Microtainer - Pediatric SST, Aliquot Tube-Serum

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Risk factor for developing coronary artery disease (CAD).

Ref Range: <100 mg/dL

Lung Adeno Reflex Dx

B367-4

Alternate Name: EGFR and KRAS reflex to ALK reflex to ROS1

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue

CPT Code: 81275 (1), 88381 (1), 81235 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

CPT Code: 83721 (1)

Storage Instruction: Room Temp **Turn Around Time:** 5-7 days

Clinical Indication: This reflex biomarker panel is useful to determine eligibility and response to targeted therapies. EGFR and KRAS with

negative reflexes to ALK and ROS1

Ref Range: See Report

Lung Adeno Reflex Panel: EGFR --> KRAS--> ALK

P263-7

Alternate Name: EGFR reflex to KRAS reflex to ALK

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81235 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 5-7 days Components: EGFR BY PCR

Clinical Indication: This reflex biomarker panel is useful to determine eligibility and response to targeted therapies.



Lung Adenocarcinoma Targeted Therapy Profile

B369-0

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81235 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: This test is used for patients with non-small-cell lung cancer, primarily adenocarcinoma histology, to determine appropriateness of tyrosine kinase inhibitor therapy. CAP guidelines recommend EGFR in advanced stage adenocarcinoma regardless of sex, smoking history, and other clinical factors. Expert concensus opinion written in the CAP guidelines recommend EGFR testing for all stages of adenocarcinoma. EGFR with a negative reflex to ALK. If ALK is negative a reflex to ROS1 will be added.

Ref Range: See Report

Lung Histology IHC Panel

A130-7

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88342 (5)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Classification of histology subtype (adenocarcinoma vs. squamous cell carcinoma) in patients with lung cancer. The

components of this panel include: CK5/6, Napsin A, p40 and TTF-1.

Ref Range: See Report

Lung Profile: KRAS, EGFR, EML4-ALK, ROS1

B368-2

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81275 (1), 88381 (1), 81235 (1), 88368 (4)

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: This lung biomarker panel is useful to determine eligibility and response to targeted therapies.

Ref Range: See Report

Luteinizing Hormone (LH)

0342-6

Alternate Name: LH; Follitropin; ICSH; Interstitial Cell Stimulating Hormone

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube CPT Code: 83002 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report

Lyme Disease Antibody, Serum

0568-6

Methodology: Enzyme Linked Immunoabsorbance

Preferred Specimen: 1 mL SST Tube CPT Code: 86618 (1)
Alternate Specimen: Microtainer - Pediatric SST,Aliquot Tube-Serum,Red Top,Microtainer - Pediatric Red

Specimen Comment: Positive result will auto-reflex to LYME IgM-1615 at additional charge

Storage Instruction: Refrigerate
Turn Around Time: 2 days

Clinical Indication: For determining antibodies to Borrelia burgdorferi, which causes Lyme disease.

Ref Range: <0.91



Lymphoproliferative Disorder Analysis

5535-0

Alternate Name: Lymphoproliferative Disorder Flow Analysis

Methodology: Flow Cytometry

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88184 (1), 88185 (17), 88189 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI, Peripheral Blood - Lavender Top

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Flow Cytometry is useful in the detection and diagnostic subclassification of lymphoma. It is specifically important in the subclassification of B-cell malignancies such as chronic lymphocytic leukemia, mantle cell lymphoma, lymphoplasmacytic lymphoma, follicle center and Burkitt's lymphoma, and plasmacytoma.

Ref Range: See Report

Lymphoproliferative Disorder Analysis (Technical Only)

5536-8

Methodology: Flow Cytometry

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88184 (1), 88185 (17)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI, Peripheral Blood - Lavender Top

Storage Instruction: Refrigerate Turn Around Time: 1 day

Clinical Indication: Flow Cytometry is useful in the detection and diagnostic subclassification of lymphoma. It is specifically important in the subclassification of B-cell malignancies such as chronic lymphocytic leukemia, mantle cell lymphoma, lymphoplasmacytic lymphoma, follicle center and Burkitt's lymphoma, and plasmacytoma.

Ref Range: See Report

Lynch Syndrome Reflex Screening

B366-6

Alternate Name: BRAF -> MLH1

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81210 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather. Please attach MSI results. Test cannot be performed without MSI results.

Source and pathology report is required. Storage Instruction: Room Temp Turn Around Time: 3 days

Clinical Indication: Testing algorithm designed to rule out Lynch Syndrome.

Ref Range: See Report

MDS FISH Panel 5281-1

Alternate Name: Myelodysplastic Syndrome FISH Panel: +8, -5q, -7q, 20q-

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (4)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate Turn Around Time: 3-5 days Components: -8,-5/5q-,-7/7q-,20q-

Clinical Indication: Useful for assessment of primary myeloid disorders, including MDS. Patients with 5q- are eligible for treatment with

lenalidomide.



MDS FISH Panel- TC Only

P960-8

Alternate Name: Myelodysplastic Syndrome FISH Panel: +8, -5q, -7q, 20q-

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (4)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Components: -7/7Q- BY FISH-TC ONLY, -5/5Q- BY FISH-TC ONLY, TRISOMY 8 BY FISH-TC, 20Q12 BY FISH-TC ONLY

Clinical Indication: Useful for assessment of primary myeloid disorders, including MDS. Patients with 5q- are eligible for treatment with

lenalidomide.

Ref Range: See Report

MET by FISH B335-1

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88368 (2)

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp Turn Around Time: 7-10 days

Clinical Indication: Detects MET amplification that has prognostic and therapeutic implications in various solid tumors, such as NSCLC.

Ref Range: See Report

MET by FISH - TC Only

B336-9

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88367 (2)

Specimen Comment: SHIP WITH ICE PACK DURING WARM WEATHER.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: Detects MET amplification that has diagnostic and prognostic utility for various solid tumors, such as NSCLC.

Ref Range: See Report

MET by IHC A612-4

Alternate Name: MET amplification

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88342

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: To assess for MET protein overexpression that may drive cancer proliferation in epithelial cancers such as NSCLC.

Ref Range: See Report

Metastatic Carcinoma (Breast, Colon) - Lymph Node

5124-3

Alternate Name: Lymph Node for Micrometasis

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Assess for nodal metastatic carcinoma with antibody AE1/AE3. Three levels are examined.



Metastatic Melanoma - Lymph Node

5126-8

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (2)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Assess for nodal metastatic carcinoma. The components of this panel include: S100, HMB45 and Melan A.

Ref Range: See Report

Microsatellite Instability (MSI-H) by PCR

3371-2

Alternate Name: MSI, Mismatch Repair Protein Deficiency

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81301 (1), 88381 (1)

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: MSI by PCR is useful to detect deficiencies in mismatch repair genes. Stage II colorectal cancer patients with Microsatellite

unstable tumors typically do not respond favorably to chemotherapy. An alternative test is MSI by IHC.

Ref Range: See Report

Minimal Residual Disease for CLL/SLL

5155-7

Alternate Name: CLL MRD Panel Methodology: Flow Cytometry

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88184 (1), 88185 (8), 88188 (1)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Storage Instruction: Refrigerate **Turn Around Time:** 24 hours

Clinical Indication: Flow Cytometry panel that focuses on B-cell markers used to assess MRD in CLL/SLL patients.

Ref Range: See Report

Mismatch Repair Protein (MMR) for Lynch Syndrome by IHC

A943-3

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (3)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: MSI by IHC is useful to detect deficiencies in mismatch repair genes. Stage II colorectal cancer patients with Microsatellite unstable tumors typically do not respond favorably to chemotherapy. Mismatch repair protein defect(s) by IHC is also an initial screening test for Lynch syndrome. An alternative test is MSI by PCR. The components of this panel include: MLH1, MSH2, MSH6 and PMS2.

Ref Range: See Report

Mismatch Repair Protein (MMR) for Lynch Syndrome by IHC-TC Only

A944-1

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461-TC (1), G0462-TC (3)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: MSI by IHC is useful to detect deficiencies in mismatch repair genes. Stage II colorectal cancer patients with Microsatellite unstable tumors typically do not respond favorably to chemotherapy. Mismatch repair protein defect(s) by IHC is also an initial screening test for Lynch syndrome. An alternative test is MSI by PCR. The components of this panel include: MLH1, MSH2, MSH6 and PMS2.



MLH1 Promoter Hypermethylation

A313-9

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81479 (1)

Specimen Comment: Ship with cold pack during warm weather. Please attach MSI results. Test cannot be performed without MSI results.

Source and pathology report is required.

Turn Around Time: 4-5 days

Clinical Indication: Hypermethylation test used to help differentiate colon tumors between those with sporadic vs hereditary lineage. This test

should only be used after a mismatch repair deficiency has been established for MLH1 (IHC or PCR).

Ref Range: See Report

MPL515 5272-0

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top

CPT Code: 81402 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top,Bone Marrow - Green Top,Peripheral Blood - Green Top

Storage Instruction: Refrigerate Turn Around Time: 2-3 days

Clinical Indication: Assessment of JAK2 V617F-negative Chronic Myeloproliferative Neoplasms (ET, Myelofibrosis)

Ref Range: No Mutation

MTHFR A1298C 5765-3

Methodology: PCR

Preferred Specimen: 1 mL Lavender top- EDTA CPT Code: 81291 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Storage Instruction: Room Temp Turn Around Time: 5 days Ref Range: No Mutation

MTHFR C677T Gene Mutation

5764-6

Methodology: PCR

Preferred Specimen: 4 mL Lavender top- EDTA CPT Code: 81291 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Storage Instruction: Room Temp Turn Around Time: 5 days Ref Range: No Mutation

Multiple Myeloma FISH Panel

5282-9

Alternate Name: FISH Panel: 13q14, t(11;14) & +11, 17p13, t(4;14), 1q21

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (8)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition. CD138 magnetic enrichment of plasma cells is available (submit

1.5 cc of marrow).

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Components: FGFR3,RB1,BCL1,p53,1q21

Clinical Indication: FISH offers a sensitive method for the detection of chromosomal abnormalities, often found in plasma cell myeloma. Chromosomal abnormalities are important prognostic indicators. All 5 FISH probes are recommended by the International Myeloma Working

Group.



Multiple Myeloma FISH Panel-TC Only

P961-6

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (8)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Components: 13Q14 BY FISH-TC ONLY, T(11;14)+11 BY FISH-TC, 17P13 BY FISH-TC ONLY, T(4;14) BY FISH-TC ONLY, 1Q21 BY FISH-TC, 17P13 BY FISH-TC ONLY, T(4;14) BY FISH-TC ONLY, 1Q21 BY FISH-TC, 17P13 BY FISH-TC ONLY, T(4;14) BY FISH-TC ONLY, T(2;14) B

TC ONLY

Clinical Indication: FISH offers a sensitive method for the detection of chromosomal abnormalities, often found in plasma cell myeloma. Chromosomal abnormalities are important prognostic indicators. All 5 FISH probes are recommended by the International Myeloma Working

Group.

Ref Range: See Report

Multiple Myeloma IHC Panel

5579-8

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (10)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of multiple myeloma/ plasma cell myeloma. The components of this panel include: CD20, CD45,

CD56, CD79a, CD138, Cyclin D1, IgA, IgG, IgM, Kappa and Lambda.

Ref Range: See Report

MYC/IGH by FISH 5027-8

Alternate Name: MYC/IGH, t(8;14) for Burkitt Lymphoma, c-MYC

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Clinical Indication: Useful for assessment of Burkitt lymphoma.

Ref Range: See Report

MYC/IGH: t(8;14) by FISH- TC Only

B349-2

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: Useful for assessment of Burkitt lymphoma.

Ref Range: See Report

Myeloid & Lymphoid Analysis (Short Panel) - TC Only

B338-5

Methodology: Flow Cytometry

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88181 (1), 88185 (13)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI, Peripheral Blood - Lavender Top

Storage Instruction: Room Temp
Turn Around Time: 1 day

Clinical Indication: This flow cytometry test is similar in clinical use to the expanded Acute and Lymphoid panel (5515) but utilizes less

antibodies and is less comprehensive in scope.



Myeloid and Lymphoid Short Panel

B271-8

Methodology: Flow Cytometry

 Preferred Specimen:
 2 mL Bone Marrow - Green Top
 CPT Code:
 88184 (1), 88185 (13), 88188 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Tissue in RPMI, Peripheral Blood - Lavender Top

Storage Instruction: Room Temp

Turn Around Time: 1 day

Clinical Indication: This flow cytometry test is similar in clinical use to the expanded Acute and Lymphoid panel (5515) but utilizes less

antibodies and is less comprehensive in scope.

Ref Range: See Report

Neuroendocrine Neoplasm IHC Panel

5195-3

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue

CPT Code: G0461 (1), G0462 (5)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of neuroendocrine neoplasms. The components of this panel include: CAM 5.2, CD56,

Chromogranin, Ki-67, Synaptophysin and TTF-1.

Ref Range: See Report

Non-Automated UroVysion

6274-5

Alternate Name: Bladder Cancer

Methodology: FISH

Preferred Specimen: 50 mL Voided Urine - Urocyte Collection Kit CPT Code: 88120 (1)

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: The test is useful for monitoring for tumor recurrence in patients with a history of urothelial carcinoma involving the bladder

or upper urinary tract and for assessing patients with hematuria for urothelial carcinoma.

Ref Range: See Report

OneCheck Hematopathology

5500-4

Alternate Name: OneCheck

Preferred Specimen: Core in Formalin,Clot in Formalin,Smear(s) in Slide Carrier,2 CPT Code: 99999

mL Green Aspirate,2 mL Lavender Aspirate

Storage Instruction: Refrigerate **Turn Around Time:** 7 days

Clinical Indication: Comprehensive hematopathology diagnostic workup with appropriate tests selected by GenPath hematopathologists.

Ref Range: See Report

OneCheck Plus GenArray

A500-1

Preferred Specimen: Lavender Aspirate CPT Code: 99999

Alternate Specimen: Core in Formalin, Clot in Formalin, Slides, Green Aspirate, Peripheral Blood - Lavender Top

Storage Instruction: Refrigerate **Turn Around Time:** 10 days

Clinical Indication: Comprehensive hematopathology diagnostic workup with appropriate tests selected by GenPath hematopathologists.

Array CGH analysis will be run as part of this assessment.



OnkoMatch + for Lung, if ALK negative reflex to ROS1

Q429-3

Alternate Name: Onkomatch + for Lung, reflex ALK negative to ROS1 by FISH

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81210 (1), 81235 (1), 81275 (1), 81323 (1),

88368 (2), 88342 (1), 88381 (1)

Alternate Specimen: H & E SLIDE, Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp **Turn Around Time:** 7 days

Components: EGFR EXON 19 DELETION, ONKOMATCH + Lung, MET BY IHC, EML4/ALK

Clinical Indication: This test is utilized to determine available genetic targets in lung adenocarcinoma for personalized medicine therapy.

Ref Range: See Report

OnkoMatch Tumor Genotyping

A635-5

Alternate Name: SNaPshot Tumor Genotyping

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81210 (1), 81235 (1), 81275 (1), 81323 (1)

Alternate Specimen: Unstained Slide, H & E SLIDE

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 5 days

Components: ONKOMATCH + Lung, EGFR EXON 19 DELETION

Clinical Indication: To assess a patient's solid tumor for 14 oncogenes across 68 mutational hotspots that may be treated with targeted

therapies.

Ref Range: See Report

OnkoMatch Tumor Genotyping + for Lung

A642-1

Alternate Name: Tumor Genotyping for Lung Cancer

Methodology: PCR

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81210 (1), 81235 (1), 81275 (1), 81323 (1),

G0461 (1), 88368 (2)

Alternate Specimen: Unstained Slide,H & E SLIDE

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 7 days

Components: ONKOMATCH + Lung, EGFR EXON 19 DELETION, MET BY IHC, EML4/ALK

Clinical Indication: This test is utilized to determine available genetic targets in lung cancer for personalized medicine therapy.

Ref Range: See Report

p53 by IHC 5153-2

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: This protein induces cell cycle arrest or apoptosis in response to sublethal or severe DNA damage, respectively, by differential transcription of target genes and through transcription-independent apoptotic functions. Associated with aggressive forms of breast

cancer and other malignancies.



p53 by IHC- TC Only A347-7

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88361-TC (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Room Temp Turn Around Time: 1 day

Clinical Indication: This protein induces cell cycle arrest or apoptosis in response to sublethal or severe DNA damage, respectively, by differential transcription of target genes and through transcription-independent apoptotic functions. Associated with aggressive forms of breast

cancer.

Ref Range: See Report

Paroxysmal Nocturnal Hemoglobinuria (PNH) Test

5564-0

Alternate Name: PNH Test Methodology: Flow Cytometry

Preferred Specimen: 2 mL Peripheral Blood - Lavender Top CPT Code: 88184 (1), 88185 (6), 88187 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Submit within 24hrs of collection, time sensitive

Storage Instruction: Room Temp Turn Around Time: 1 day

Clinical Indication: Diagnostic for Paroxysmal Nocturnal Hemoglobinuria (PNH).

Ref Range: See Report

Pathology Peripheral Smear Review

5106-0

Methodology: Microscopic Examination **Preferred Specimen:** Lavender top- EDTA

CPT Code: 85060 (1)

CPT Code: 88321 (1)

Alternate Specimen: Lavender top- EDTA, Microtainer - Pediatric Lavender, Green top, Microtainer - Pediatric Green Top, Slides, Light blue top

Turn Around Time: 1 day

Clinical Indication: Pathologist consultation on peripheral blood smear.

Ref Range: See Report

Pathology Slide Consultation

5111-0

Methodology: Morphology

Preferred Specimen: Slides in Slide Carrier

Storage Instruction: Room Temp Turn Around Time: 1-2 days Clinical Indication: Slide consultation

Ref Range: See Report

PDGFR alpha A430-1

Methodology: PCR

Preferred Specimen: 5 mL Formalin-fixed, Paraffin-embedded Tissue CPT Code: 81404 (1)

Specimen Comment: See test code A344 for all Non-NY clients.

Storage Instruction: Refrigerate
Turn Around Time: 7 days

Clinical Indication: GISTs with PDGFRA mutations (except D842V) are likely to respond to imatinib therapy.



PDGFR alpha/FIP1L1 by FISH

5182-1

Alternate Name: FIP1L1-PDGFRA by FISH

Methodology: FISH

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88365 (1)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: Mutations in the FIP1L1-PDGFRA gene may be useful in the diagnosis of a subset of chronic eosinophilic leukemias, termed hypereosinophilic syndrome (HES). Patients with HES have shown favorable response to tyrosine kinase inhibitor therapy, imatinib. FIP1L1-PDGFRA is also present in a subset of patients with systemic mastocytosis and these patients may respond to imatinib. In both HES and systemic mastocytosis, testing for FIP1L1-PDGFRA may be used for disease monitoring of patients on tyrosine kinase inhibitor therapy.

Ref Range: See Report

PDGFRbeta/TEL 5219-1

Alternate Name: PDGFR beta

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top **CPT Code:** 88271 (2), 88275 (2), 88291 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 5-8 days

Clinical Indication: Useful in assessment of chronic myelomonocytic leukemia (CMML).

Ref Range: Negative

Phosphates, Urine, 24 Hours

0411-9

Preferred Specimen: 10 mL Urine Container - 24hr CPT Code: 81050 (2), 84105 (1)

Alternate Specimen: Urine Cup 24 hour, Urine Tube 24 hour

Specimen Comment: Adjust pH level with HCL preservatives. Record total volume on req.

Storage Instruction: Refrigerate Turn Around Time: 3 days Ref Range: See Report

Plasma Cell Analysis

5573-1

Alternate Name: Myeloma Panel by Flow Cytometry

Methodology: Flow Cytometry

 Preferred Specimen: 2 mL Bone Marrow - Green Top
 CPT Code: 88184 (1), 88185 (11), 88188 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Peripheral Blood - Lavender Top

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Flow Cytometry is useful in characterizing and distinguishing normal from neoplastic plasma cells based on the degree of surface antigen expression, presence of aberrant antigens, and detection of intracytoplasmic immunoglobulin heavy and light chains. Flow can assess for clonality but may underestimate plasma cell percentages.

Ref Range: See Report

Plasma Cell Analysis - TC Only

5574-9

Methodology: Flow Cytometry

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88184 (1), 88185 (11)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Peripheral Blood - Lavender Top

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Flow Cytometry is useful in characterizing and distinguishing normal from neoplastic plasma cells based on the degree of surface antigen expression, presence of aberrant antigens, and detection of intracytoplasmic immunoglobulin heavy and light chains. Flow can assess for clonality but may underestimate plasma cell percentages.



PNH- TC Only 5185-4

Alternate Name: Paroxysmal Nocturnal Hemoglobinuria Technical Component

Methodology: Flow Cytometry

Preferred Specimen: 2 mL Peripheral Blood - Lavender Top CPT Code: 88184 (1), 88185 (6)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Submit within 24hrs of collection, time sensitive

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Diagnostic for Paroxysmal Nocturnal Hemoglobinuria (PNH).

Ref Range: See Report

Prostate Cancer/ Lymph Nodes

5122-7

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Assess for nodal metastatic carcinoma.

Ref Range: See Report

Prostate Specific Antigen (PSA)

0190-9

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube

CPT Code: 84153 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: <4.00 ng/mL

Prostate Specific Antigen (PSA), Free and Total, Serum

2088-3

Methodology: Chemiluminescence **Preferred Specimen:** 1 mL SST Tube

Γ Tube **CPT Code:** 84153 (1), 84154 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Microtainer - Pediatric Red, Aliquot Tube-Serum

Storage Instruction: Refrigerate
Turn Around Time: 1 day

Components: PSA Total, PSA, FREE

Ref Range: See Report

Prostate Triple Stain

5097-1

Alternate Name: Prostate Cancer Profile

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (2)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: Useful for assessment of prostate carcinoma. The components of this panel include: CK903, p504S and p63.

Ref Range: See Report

Prostate Triple Stain-TC Only

5104-5

Alternate Name: Prostate Cancer (Stain Only)

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461-TC (1), G0462-TC (2)

Alternate Specimen: Unstained Slide

Turn Around Time: 1 day

Clinical Indication: Ship with cold pack during warm weather. The components of this panel include: CK903, p504S and p63.



Protein Electrophoresis, Serum (SPEP)

0085-1

Alternate Name: Electrophoresis, Serum; Serum Protein Electrophoresis; Zone Electrophoresis

Preferred Specimen: 2 mL SST Tube CPT Code: 84155 (1), 84165 (7)

Alternate Specimen: Microtainer - Pediatric SST, Aliquot Tube-Serum

Storage Instruction: Refrigerate **Turn Around Time:** 2 days

Clinical Indication: Serum proteins are separated into albumin, alpha, beta, and gamma globulins. Gamma globulins are assessed for a

monoclonal spike (M protein) seen in plasma cell dyscrasias.

Ref Range: See Report

Prothrombin G20210A Mutation

5795-0

Methodology: PCR

Preferred Specimen: 5 mL Lavender top- EDTA CPT Code: 81240 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Storage Instruction: Room Temp Turn Around Time: 5 days Ref Range: See Report

Reactive Hyperplasia vs. Lymphoma (NHL) IHC Panel

5103-7

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G4062 (12)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Rule out lymphoma vs. reactive lymphoid hyperplasia. The components of this panel include: BCL-2, BCL-6, CD3, CD5,

CD10, CD20, CD23, CD43, CD79a, Cyclin D1, Kappa, Ki-67 and Lambda.

Ref Range: See Report

Reticulocyte Count

0141-2

Alternate Name: Retic Count

Preferred Specimen: 4 mL Lavender top- EDTA CPT Code: 85045 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Specimen Comment: Sample is stable at room temperature for 48 hours.

Storage Instruction: Refrigerate
Turn Around Time: 1 day
Ref Range: See Report

Rheumatoid Arthritis (RA) Factor

0796-3

Alternate Name: RA Latex; RA Latex, Turbidimetry; RF Titer; Rheumatoid Factor (RF)

Methodology: Immunoturbidometric

Preferred Specimen: 1 mL SST Tube CPT Code: 86431 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: <14 IU/mL

ROS1 by FISH

B334-4

Methodology: FISH

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: 88368 (2)

Specimen Comment: Ship with cold pack during warm weather. Please include specimen collection date on requisition.

Storage Instruction: Room Temp **Turn Around Time:** 3-5 days

Clinical Indication: Diagnostic for ROS1 rearrangements. Useful in determining patient's eligibility for crizotinib.



Sedimentation Rate, Erythrocyte (ESR)

0086-9

Alternate Name: Erythrocyte Sedimentation Rate (ESR); Sed-Rate

Preferred Specimen: Lavender top- EDTA CPT Code: 85651 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Specimen Comment: ESR will be ran STAT if ordered in conjuction with CBC.

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: <21 mm/hr,<26 mm/hr

Small Round Cell Tumor IHC Panel

5177-1

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (12)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of small round cell tumors. The components of this panel include: CAM 5.2, CK7, CK20,

Chromogranin, Synaptophysin, CD99, CD45, CD56, S100, TTF-1, Vimentin, Desmin and NF.

Ref Range: See Report

Spindle Cell Neoplasm IHC Panel

5191-2

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue CPT Code: G0461 (1), G0462 (10)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: Useful for assessment of spindle cell neoplasms. The components of this panel include: Actin, AE1/AE3, CD34, CD68,

CD117, Desmin, Factor XIIIa, Ki-67, S100, SMA and Vimentin.

Ref Range: See Report

Strep Screen, Group A, Beta-Hemolytic

0079-4

Methodology: DNA Probe
Preferred Specimen: Swab

Preferred Specimen: Swab-E CPT Code: 87650 (1)

Alternate Specimen: Swab-Bacterial Culture

Turn Around Time: 2 days Ref Range: Negative

t(4;14) by FISH-TC Only

A875-7

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88367-TC (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: Prognostic for patients with Plasma Cell Myeloma. Commonly ordered through the Multiple Myeloma FISH panel (TC

Only), P961-6.

Ref Range: See Report

T3 Uptake, Serum (T3U)

0152-9

Methodology: Enzyme Immunoassay

Preferred Specimen: 1 mL SST Tube CPT Code: 84479 (1)

Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: 24.3-39.0 %



T3, Total 0150-3

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube

CPT Code: 84480 (1)

Alternate Specimen: Red Top,Microtainer - Pediatric SST,Aliquot Tube-Serum,Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report

TCR gamma by PCR

5031-0

Alternate Name: TCR, T-Cell Gene Rearrangement

Methodology: PCR

Preferred Specimen: 2 mL Bone Marrow - Lavender Top CPT Code: 81342 (1)

Alternate Specimen: 5 mL Peripheral Blood - Lavender Top, Tissue in RPMI, Peripheral Blood - Green Top, Formalin-fixed, Paraffin-embedded

Tissue,Bone Marrow - Green Top Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: Assess clonality in T-cells. Useful for assessment of T-cell lymphoma.

Ref Range: See Report

TEL/AML1: t(12;21) by FISH

5038-5

Alternate Name: TEL/AML1 Gene Rearrangement by FISH, t(12;21)

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate **Turn Around Time:** 5 days

Clinical Indication: Useful for assessment of a subtype of B-lymphoblastic leukemia/lymphoma, usually in childhood.

Ref Range: See Report

Thyroid Stimulating Hormone (TSH)

0153-7

Alternate Name: TSH;Thyroidopin;Ultrasensitive TSH

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube

CPT Code: 84443 (1)

Alternate Specimen: Red Top,Microtainer - Pediatric SST,Aliquot Tube-Serum,Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report

Thyroxine (T4), Serum

0151-1

Alternate Name: T4;Tetraiodothyronine; Methodology: Enzyme Immunoassay

Preferred Specimen: 1 mL SST Tube CPT Code: 84436 (1)
Alternate Specimen: Red Top,Microtainer - Pediatric SST,Aliquot Tube-Serum,Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report



Trisomy 12 by FISH-TC Only

A877-3

Methodology: FISH

Preferred Specimen: 5 mL Peripheral Blood - Green Top **CPT Code:** 88367-TC (1)

Alternate Specimen: 2 mL Bone Marrow - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: Trisomy 12 by FISH is used for diagnostic and prognostic purposes in patients with CLL. Commonly ordered through the

CLL FISH panel (TC Only), P962-4.

Ref Range: See Report

Trisomy 8 By FISH-TC Only

A870-8

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top **CPT Code:** 88367-TC (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: Useful for assessment of primary myeloid disorders, including MDS. Commonly ordered through the MDS FISH panel (TC

Only), P960-8.

Ref Range: See Report

Tumor of Unknown Primary IHC Panel

5190-4

Methodology: IHC

Preferred Specimen: Formalin-fixed, Paraffin-embedded Tissue **CPT Code:** G0461 (1), G0462 (13)

Alternate Specimen: Unstained Slide

Specimen Comment: Ship with cold pack during warm weather.

Turn Around Time: 1 day

Clinical Indication: The tumor of unknown primary IHC panel is used to determine the primary tumor site. Number of IHC markers will vary

based on each case. Ref Range: See Report

UGT1A1 Mutation Analysis

5183-9

Alternate Name: Irinotecan Toxicity

Methodology: PCR

Preferred Specimen: 5 mL Peripheral Blood - Lavender Top **CPT Code:** 81350 (1)

Storage Instruction: Refrigerate Turn Around Time: 7 days

Clinical Indication: UGT1A1 analysis detects enzyme deficiencies that lead to impaired metabolism of chemotherapy. Clinicians may titrate

colorectal patients harboring UGT1A1 mutations for irinotecan.

Ref Range: See Report

Uric Acid, Urine, 24 Hours

0158-6

Alternate Name: Urate, Urine

Preferred Specimen: 5 mL Urine Container - 24hr **CPT Code:** 84560 (1)

Alternate Specimen: Urine Cup 24 hour, Urine Tube 24 hour

Storage Instruction: Refrigerate Turn Around Time: 2 days Ref Range: 0.25-0.75 gm/24hr

Urinalysis, Routine

0159-4

Preferred Specimen: 12 mL Urine Urinalysis Tube - Yellow **CPT Code:** 81001 (1)

Alternate Specimen: Urine Cup, Urine Container - 24hr, Urine tube without preservative, Urine Cup 24 hour, Urine Tube 24 hour

Storage Instruction: Refrigerate Turn Around Time: 1 day Ref Range: See Report



Urine Cytology-TC Only 5218-3

Preferred Specimen: 50 mL Voided Urine - Urocyte Collection Kit **CPT Code:** 88112-TC (1)

Storage Instruction: Refrigerate Turn Around Time: 3 days

Clinical Indication: To aid in the diagnosis of bladder cancer.

Ref Range: See Report

5254-8 **Urine Cytopathology, Global**

Preferred Specimen: 50 mL ThinPrep Cytolyte Solution **CPT Code:** 88112 (1)

Storage Instruction: Refrigerate Turn Around Time: 3 days

Clinical Indication: To aid in the diagnosis of bladder cancer.

Ref Range: See Report

UroVysion-TC Only 5249-8

Alternate Name: UroVysion for Bladder Cancer: Technical Component Only

Methodology: FISH

Preferred Specimen: 50 mL Voided Urine - Urocyte Collection Kit **CPT Code:** 88121-TC (1)

Specimen Comment: Please include specimen collection date on requisition.

Storage Instruction: Refrigerate Turn Around Time: 3-5 days

Clinical Indication: Technical component for the diagnostic of bladder cancer.

Ref Range: See Report

Vitamin B12, Serum 0160-2

Methodology: Chemiluminescence

Preferred Specimen: 1 mL SST Tube **CPT Code:** 82607 (1) Alternate Specimen: Aliquot Tube-Serum, Red Top, Microtainer - Pediatric SST, Microtainer - Pediatric Red

Storage Instruction: Refrigerate

Turn Around Time: 1 day Ref Range: 211-911 pg/mL

Vitamin D, 25-Hydroxy, Serum

0286-5

Methodology: Chemiluminescence

Preferred Specimen: 2 mL SST Tube **CPT Code:** 82306 (1) Alternate Specimen: Red Top, Microtainer - Pediatric SST, Aliquot Tube-Serum, Microtainer - Pediatric Red

Storage Instruction: Refrigerate Turn Around Time: 2 days Ref Range: 32.0-100.0 ng/mL

Warfarin Sensitivity

Alternate Name: Coumadin Sensitivity

Methodology: PCR

Preferred Specimen: 2 mL Lavender top- EDTA **CPT Code:** 81355 (1)

Alternate Specimen: Microtainer - Pediatric Lavender

Storage Instruction: Refrigerate Turn Around Time: 3 days

Clinical Indication: Provides guidance to clinicians in warfarin dosing. This test includes VKOR and CYP.

Ref Range: See Report

6261-2



X/Y Bone Marrow Transplant Monitoring

5066-6

Methodology: FISH

Preferred Specimen: 2 mL Bone Marrow - Green Top CPT Code: 88368 (2)

Alternate Specimen: 5 mL Peripheral Blood - Green Top

Specimen Comment: Please include specimen collection date on requisition

Storage Instruction: Refrigerate **Turn Around Time:** 3-5 days

Clinical Indication: For identification and monitoring of sex-mismatched bone marrow transplants.

Ref Range: See Report

ZAP-70 by Flow Cytometry

5409-8

Methodology: Flow Cytometry

 Preferred Specimen:
 2 mL Bone Marrow - Green Top
 CPT Code:
 88184 (1), 88185 (3), 88187 (1)

Alternate Specimen: 5 mL Peripheral Blood - Green Top, Peripheral Blood - Lavender Top

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: ZAP-70 analysis is an independent CLL prognostic marker and surrogate marker for IgVH. Flow cytometry quantitates the

level of ZAP-70 expression in CLL cells.

Ref Range: See Report

ZAP-70- TC Only 5110-2

Alternate Name: ZAP-70 Prognosis for CLL

Methodology: Flow Cytometry

Preferred Specimen: 5 mL Peripheral Blood - Green Top CPT Code: 88184 (1), 88185 (3)

Alternate Specimen: 2 mL Bone Marrow - Green Top, Peripheral Blood - Lavender Top

Storage Instruction: Refrigerate **Turn Around Time:** 1 day

Clinical Indication: ZAP-70 analysis is an independent CLL prognostic marker and surrogate marker for IgVH. Flow cytometry quantitates the

antibody levels.

Ref Range: See Report

A53





Tost Codo	Toot Name	Page
Test Code	Test Name	Page
A869-0	-5/5q- by FISH- TC Only	A1
A868-2	-7/7q- by FISH- TC Only	A1
A879-9	11q22.3 by FISH- TC Only	A1
A872-4 A878-1	13q14 by FISH- TC Only 13q14.3 by FISH- TC Only	A1 A2
A874-0	17p13 by FISH- TC Only	A2 A2
A311-3		A2 A2
A311-3 A876-5	1p/19q by FISH 1q21 by FISH- TC Only	A2 A2
A871-6	20g12 by FISH- TC Only	A2
3283-9	Acute Hepatitis Panel for Medicare	A3
5515-2	Acute Leukemia & Myeloid Disorders Analysis	A3
5516-0	Acute Leukemia & Myeloid Disorders Analysis- TC Only	A3
5116-9	Acute Leukemia/MDS IHC Panel	A3
5181-3	Adenocarcinoma vs. Mesothelioma IHC Panel	A3
5108-6	AE1/AE3- TC Only	A4
A703-1	ALK by FISH	A4
A241-2	ALK by FISH (FDA)	A4
B236-1	ALK by FISH- TC Only	A4
B603-2	ALK by IHC - TC Only	A4
P260-3	ALL Prognosis Panel by FISH	A5
0025-7	Alpha Fetoprotein, Tumor Marker (AFP)	A5
8860-9	AML - CEBPA Mutational Analysis	A5
5024-5	AML - M2 (AML/ETO) (RUNX1/RUNX1T1) by FISH	A5
5034-4	AML - M2 (AML/ETO) (RUNX1/RUNX1T1) by RT-PCR	A5
5260-5	AML - M3 (PML/RARA) by FISH	A6
5261-3	AML - M3 (PML/RARA) by RT-PCR	A6
5427-0	AML - M4 & M5 by FISH	A6
5025-2	AML - M4Eo inv(16) by FISH	A6
5035-1	AML - M4Eo inv(16) by PCR	A7
P261-1	AML Diagnostic Panel by FISH	A7
5988-1	AML Prognostic Panel: FLT3 & NPM1	A7
A881-5	AML-M3(PML/RARA) by FISH- TC Only	A7
5269-6	AML: NPM1 Mutation Analysis	A7
0041-4	Anti-Thyroglobulin Antibody (ATA)	A8
0038-0	Antinuclear Antibody (ANA)	A8
0042-2	Antistreptolysin O (ASO) Titer	A8
5030-2	Automated UroVysion By FISH	A8
5032-8	B-Cell, IGH by FISH	A8
5278-7	B-Cell, IGH by PCR	A9
5273-8	BCL1, BCL2, BCL6 (FISH Panel)	A9
5026-0	BCL1/IGH (CCND1/IGH) by FISH	A9
A873-2	BCL1/IGH (CCND1/IGH) by FISH-TC Only	A9
5270-4	BCL2/IGH by FISH	A9
5271-2	BCL2/IGH by PCR	A10
B350-0	BCL2/IGH: t(14;18) by FISH- TC Only	A10
5028-6	BCL6 by FISH	A10
B348-4 A880-7	BCL6: 3q27 by FISH-TC Only	A10 A10
5858-6	BCR/ABL by FISH-TC Only BCR/ABL Quantification by RT-PCR	A10 A11
5265-4	BCR/ABL: t(9;22) by FISH	A11
0262-6	Beta-2-Microglobulin, Serum	A11
1754-1	Beta-2-Microglobulin, Gerum Beta-2-Microglobulin, Urine, Random	A11
5199-5	Bone Marrow Morphology	A11
5202-7	Bone Marrow Morphology - Clot Only	A11
5202-7 5200-1	Bone Marrow Morphology - Core Only	A12
5211-8	Bone Marrow Morphology - Core Only Bone Marrow Morphology - Smears	A12
52110	2010 marton morphology Citicato	/114



Test Co	de Test Name	Page
5207-6	Bone Marrow Slide Consult	A12
5285-2	Bone Marrow Smear Interpretation	A12
5893-3	BRAF V600E	A12
A566-2	BRAF V600E (FDA)	A13
5118-5	Breast Carcinoma, Marrow, IHC Micromets	A13
5176-3	Breast Carcinoma, rule out Microinvasion	A13
A952-4	Breast Carcinoma, rule out Microinvasion- TC Only	A13
5170-6	Breast Carcinoma/Lymph Nodes/MM Metastasis	A13
3320-9	C-Reactive Protein (hs-CRP), High Sensitivity	A13
0536-3	CA 125, Serum	A14
2130-3	CA 15-3, Serum	A14
0535-5	CA 19-9, Serum	A14
0823-5	CA 27.29, Serum	A14
0359-0	Calcium, Urine, 24 Hours	A14
0055-4	Carcinoembryonic Antigen (CEA)	A15
0053-9	CBC w/Diff, Platelet Ct.	A15
2665-8 5250-6	Chlamydia trachomatis (CT), Urine, Probetec Chromosome Analysis	A15 A15
6237-2	Circulating Tumor Cells (CTC)	A15
0021-6	Citrate, 24Hr. Urine	A16
5434-6	CK-903 for Prostate Cancer	A16
5404-9	CK-903- TC Only	A16
5280-3	CLL FISH Panel	A16
P962-4	CLL FISH Panel- TC Only	A16
6290-1	CML: ABL Kinase Mutation Analysis	A17
P264-5	Colon DNA Mismatch Repair Reflex	A17
B365-8	Colon Reflex Dx	A17
0532-2	Complement C3, Serum	A17
0533-0	Complement C4, Serum	A17
3427-2	Comprehensive Metabolic Panel (CMP)	A18
5256-3	Comprehensive Slide Consult	A18
5324-9	Comprehensive Urine Pathology	A18
0086-9	Comprehensive Urine Pathology- TC Only	A18
0064-6	Coombs Test, Direct	A18
0900-1	Cortisol, Serum, Random	A18
0072-9	Creatinine Clearance, Urine, 24 Hours	A19
0341-8	Culture, Blood	A19
0080-2	Culture, Urine	A19
0082-8 5847-9	Culture, Wound, Aerobic Only CYP2C19 Pharmacogenomic (Plavix)	A19 A19
5296-9	CYP2D6 (NY Only): Tamoxifen Resistance	A19
5287-8	CYP2D6: Tamoxifen Resistance (non-NY only)	A20
0400-2	Cytomegalovirus (CMV) Antibody, IgG	A20
0461-4	Cytomegalovirus (CMV) Antibody, IgM	A20
5555-8	DNA Ploidy for Molar Pregnancy	A20
5575-6	DNA Ploidy/S-Phase by Flow Cytometry	A20
6285-1	DPD 5-FU Genotype	A20
0234-5	EBV Capsid Ab, IgG	A21
0580-1	EBV Capsid Ab, IgM	A21
0582-7	EBV, Early Antigen Ab	A21
0583-5	EBV, Nuclear Antigen Ab, IgG	A21
5295-1	EGFR by PCR	A21
A675-1	EGFR by PCR if neg. reflex to ALK	A21
0002-6	Electrolytes, Serum	A22
0404-4	Electrophoresis, Urine Protein (UPEP)	A22
B565-3	EML4-ALK by IHC	A22



Test Code	Test Name	Page
5198-7	ER / PR - w/Interpretation	A22
5160-7	ER / PR / DNA / Ki-67 - w/Interpretation	A22
5433-8	ER / PR / Ki-67 / HER2- TC Only	A23
5163-1	ER / PR / Ki-67/ HER2 - w/Interpretation	A23
5131-8	ER / PR / Ki-67 / HER2 (Tech Only), plus DNA (Global)	A23
5162-3	ER / PR / DNA / Ki-67 / HER2 - w/Interpretation	A23
5408-0	ER / PR / DNA / Ki-67 / HER2 - Reflex to HER2 by FISH	A23
5161-5	ER / PR / HER2 - w/Interpretation	A24
5406-4	ER / PR / HER2 - Reflex to HER2 by FISH	A24
A277-6	ER / PR / HER2 FISH- TC Only	A24
5127-6	ER / PR / HER2- TC Only	A24
A278-4	ER / PR / Ki-67 / p53 / HER2 FISH- TC Only	A24
5407-2	ER / PR / Ki-67 / HER2 - Reflex to HER2 by FISH	A24
A951-6	ER / PR / Ki-67 / HER2 / p53, TC Only	A25
5129-2	ER / PR / Ki-67- TC Only, plus DNA- Global	A25
A276-8	ER / PR / Ki67 / p53 / HER2 FISH -TC Only plus DNA- Global	A25 A25
5425-4	ER / PR- TC Only ERCC1	A25 A25
A300-6 0183-4		A26
0516-5	Erythropoietin, Serum Estradiol, Serum	A26
0562-9	Estrogen, Total, Serum	A26
5727-3	Factor V (R2) Polymorphism	A26
5726-5	Factor V Mutation (Leiden)	A26
0088-5	Ferritin, Serum	A26
5178-9	FLT3 Mutation Analysis	A27
0090-1	Folate, Serum	A27
0092-7	Follicle Stimulating Hormone (FSH)	A27
3893-5	Free Kappa & Lambda Light Chain (serum)	A27
5306-6	GenArray Molecular Karyotyping	A27
5194-6	Germ Cell Tumor IHC Panel	A28
5175-5	GIST Profile	A28
2666-6	Gonorrhea (GC), Urine, Probetec	A28
0514-0	Haptoglobin, Serum	A28
1766-5	Helicobacter pylori, IgA	A28
1765-7	Helicobacter pylori, IgG	A29
7736-2	Helicobacter pylori, IgM	A29
0102-4	Hemoglobin A1C	A29
0216-2	Hemoglobin Fractionation, HPLC	A29
3422-3	Hepatic Function Panel	A29
5193-8	Hepatocellular vs. Cholangiocarcinoma vs. Metastasis IHC Panel	A30
5171-4	HER2 by IHC	A30
5262-1	HER2 by FISH	A30
A427-7	HER2 by FISH - Gastric/GEJ	A30
A428-5	HER2 by FISH for Gastric/GEJ- TC Only	A30
5428-8	HER2 by IHC - Reflex +2 to HER2 by FISH	A31
A972-2	HER2 by IHC in Gastric/Gastroesophageal Carcinoma	A31
5405-6	HER2 by IHC- TC Only	A31
5259-7	HER2 FISH- TC Only	A31
3420-7	Hereditary Hemochromotosis (HFE): C282Y, H63D, S65C	A31
0360-8	HIV-1/HIV-2 Antibody Screen	A32
0375-6	HLA-B27	A32
5101-1	Hodgkin Lymphoma IHC Panel	A32
8714-8	HPV High by ISH	A32
8689-2	HPV High by ISH- TC Only	A32
8696-7	HPV High/Low by ISH- TC Only	A32
3412-4	HPV High/Low Risk by ISH	A33



Test Code	Test Name	Page
1201-3	Human Chorionic Gonadotropin (HCG), Quantitative, Tumor Marker	A33
5080-7	IgH/TCR-GAMMA by PCR	A33
5223-3	IgVH Mutation Analysis	A33
0413-5	Immunofixation, Serum	A33
1644-4	Immunofixation, Urine, Random	A34
0520-7	Immunoglobulins, Serum	A34
0250-1	Iron + TIBC	A34
5307-4	JAK2 Exon 12	A34
5157-3	JAK2 V617F	A34
5152-4	Ki-67 by IHC	A34
A346-9	Ki-67 by IHC- TC Only	A35
5179-7	KIT (D816V) by PCR	A35
A344-4	KIT/PDGFRA for GIST by PCR	A35
5288-6	KRAS	A35
5891-7	KRAS if Negative Reflex to BRAF	A35
0117-2	Lactate Dehydrogenase (LDH), Serum	A36
0009-1	Lipid Panel	A36
2194-9	Low-density lipoprotein (LDL) Direct	A36
B367-4	Lung Adeno Reflex Dx	A36
P263-7	Lung Adeno Reflex Panel: EGFR> KRAS> ALK	A36
B369-0	Lung Adenocarcinoma Targeted Therapy Profile	A37
A130-7	Lung Histology IHC Panel	A37
B368-2	Lung Profile: KRAS, EGFR, EML4-ALK, ROS1	A37
0342-6	Luteinizing Hormone (LH)	A37
0568-6	Lyme Disease Antibody, Serum	A37
5535-0	Lymphoproliferative Disorder Analysis	A38
5536-8	Lymphoproliferative Disorder Analysis (Technical Only)	A38
B366-6	Lynch Syndrome Reflex Screening	A38
5281-1	MDS FISH Panel	A38
P960-8	MDS FISH Panel- TC Only	A39
B335-1	MET by FISH	A39
B336-9	MET by FISH - TC Only	A39
A612-4	MET by IHC	A39
5124-3	Metastatic Carcinoma (Breast, Colon) - Lymph Node	A39
5126-8	Metastatic Melanoma - Lymph Node	A40
3371-2	Microsatellite Instability (MSI-H) by PCR	A40
5155-7	Minimal Residual Disease for CLL/SLL	A40
A943-3	Mismatch Repair Protein (MMR) for Lynch Syndrome by IHC	A40
A944-1	Mismatch Repair Protein (MMR) for Lynch Syndrome by IHC- TC Only	A40
A313-9	MLH1 Promoter Hypermethylation	A41
5272-0	MPL515	A41
5765-3	MTHFR A1298C	A41
5764-6	MTHFR C677T Gene Mutation	A41
5282-9	Multiple Myeloma FISH Panel	A41
P961-6	Multiple Myeloma FISH Panel-TC Only	A42
5579-8	Multiple Myeloma IHC Panel	A42
5027-8	MYC/IGH by FISH	A42
B349-2	MYC/IGH: t(8;14) by FISH- TC Only	A42
B338-5	Myeloid & Lymphoid Analysis (Short Panel) - TC Only	A42
B271-8	Myeloid and Lymphoid Short Panel	A43
5195-3	Neuroendocrine Neoplasm IHC Panel	A43
6274-5	Non-Automated UroVysion	A43
5500-4	OneCheck Hematopathology	A43
A500-1	OneCheck Plus GenArray	A43
Q429-3	OnkoMatch + for Lung, if ALK negative reflex to ROS1	A44
A635-5	OnkoMatch Tumor Genotyping	A44



Test Code	Test Name	Page
A642-1	OnkoMatch Tumor Genotyping + for Lung	A44
5153-2	p53 by IHC	A44
A347-7	p53 by IHC- TC Only	A45
5564-0	Paroxysmal Nocturnal Hemoglobinuria (PNH) Test	A45
5106-0	Pathology Peripheral Smear Review	A45
5111-0	Pathology Slide Consultation	A45
A430-1	PDGFR alpha	A45
5182-1	PDGFR alpha/FIP1L1 by FISH	A46
5219-1	PDGFRbeta/TEL	A46
0411-9	Phosphates, Urine, 24 Hours	A46
5573-1	Plasma Cell Analysis	A46
5574-9	Plasma Cell Analysis - TC Only	A46
5185-4	PNH- TC Only	A47
5122-7	Prostate Cancer/ Lymph Nodes	A47
0190-9	Prostate Specific Antigen (PSA)	A47
2088-3	Prostate Specific Antigen (PSA), Free and Total, Serum	A47
5097-1	Prostate Triple Stain	A47
5104-5	Prostate Triple Stain- TC Only	A47
0085-1	Protein Electrophoresis, Serum (SPEP)	A48
5795-0	Prothrombin G20210A Mutation	A48
5103-7	Reactive Hyperplasia vs. Lymphoma (NHL) IHC Panel	A48
0141-2	Reticulocyte Count	A48
0796-3	Rheumatoid Arthritis (RA) Factor	A48
B334-4	ROS1 by FISH	A48
0086-9	Sedimentation Rate, Erythrocyte (ESR)	A18
5177-1	Small Round Cell Tumor IHC Panel	A49
5191-2	Spindle Cell Neoplasm IHC Panel	A49
0079-4	Strep Screen, Group A, Beta-Hemolytic	A49
A875-7	t(4;14) by FISH-TC Only	A49
0152-9	T3 Uptake, Serum (T3U)	A49
0150-3	T3, Total	A50
5031-0	TCR gamma by PCR	A50
5038-5	TEL/AML1: t(12;21) by FISH	A50
0153-7	Thyroid Stimulating Hormone (TSH)	A50
0151-1	Thyroxine (T4), Serum	A50
A877-3	Trisomy 12 by FISH-TC Only	A51
A870-8	Trisomy 8 By FISH-TC Only	A51
5190-4	Tumor of Unknown Primary IHC Panel	A51
5183-9	UGT1A1 Mutation Analysis	A51
0158-6	Uric Acid, Urine, 24 Hours	A51
0159-4	Urinalysis, Routine	A51
5218-3	Urine Cytology- TC Only	A52
5254-8	Urine Cytopathology, Global	A52
5249-8	UroVysion- TC Only	A52
0160-2	Vitamin B12, Serum	A52
0286-5	Vitamin D, 25-Hydroxy, Serum	A52
6261-2	Warfarin Sensitivity	A52
5066-6	X/Y Bone Marrow Transplant Monitoring	A53
5409-8	ZAP-70 by Flow Cytometry	A53
5110-2	ZAP-70- TC Only	A53

В5



Test Code	Test Name	Page
0002-6	Electrolytes, Serum	A22
0009-1	Lipid Panel	A36
0021-6	Citrate, 24Hr. Urine	A16
0025-7	Alpha Fetoprotein, Tumor Marker (AFP)	A5
0038-0	Antinuclear Antibody (ANA)	A8
0041-4	Anti-Thyroglobulin Antibody (ATA)	A8
0042-2	Antistreptolysin O (ASO) Titer	A8
0053-9	CBC w/Diff, Platelet Ct.	A15
0055-4	Carcinoembryonic Antigen (CEA)	A15
0064-6	Coombs Test, Direct	A18
0072-9	Creatinine Clearance, Urine, 24 Hours	A19
0079-4	Strep Screen, Group A, Beta-Hemolytic	A49
0080-2	Culture, Urine	A19
0082-8	Culture, Wound, Aerobic Only	A19
0085-1	Protein Electrophoresis, Serum (SPEP)	A48
0086-9	Sedimentation Rate, Erythrocyte (ESR)	A18
0086-9	Comprehensive Urine Pathology- TC Only	A18
0088-5	Ferritin, Serum	A26
0090-1	Folate, Serum	A27
0092-7	Follicle Stimulating Hormone (FSH)	A27
0102-4	Hemoglobin A1C	A29
0117-2	Lactate Dehydrogenase (LDH), Serum	A36
0141-2	Reticulocyte Count	A48
0150-3	T3, Total	A50
0151-1	Thyroxine (T4), Serum	A50
0152-9	T3 Uptake, Serum (T3U)	A49
0153-7	Thyroid Stimulating Hormone (TSH)	A50
0158-6	Uric Acid, Urine, 24 Hours	A51
0159-4	Urinalysis, Routine	A51
0160-2	Vitamin B12, Serum	A52
0183-4	Erythropoietin, Serum	A26
0190-9	Prostate Specific Antigen (PSA)	A47
0216-2	Hemoglobin Fractionation, HPLC	A29
0234-5	EBV Capsid Ab, IgG	A21
0250-1	Iron + TIBC	A34
0262-6	Beta-2-Microglobulin, Serum	A11
0286-5	Vitamin D, 25-Hydroxy, Serum	A52
0341-8	Culture, Blood	A19
0342-6	Luteinizing Hormone (LH)	A37
0359-0	Calcium, Urine, 24 Hours	A14
0360-8	HIV-1/HIV-2 Antibody Screen	A32
0375-6	HLA-B27	A32
0400-2	Cytomegalovirus (CMV) Antibody, IgG	A20
0404-4	Electrophoresis, Urine Protein (UPEP)	A22
0411-9	Phosphates, Urine, 24 Hours	A46
0413-5	Immunofixation, Serum	A33
0461-4	Cytomegalovirus (CMV) Antibody, IgM	A20
0514-0	Haptoglobin, Serum	A28
0516-5	Estradiol, Serum	A26
0520-7	Immunoglobulins, Serum	A34
0532-2	Complement C3, Serum	A17
0533-0	Complement C4, Serum	A17
0535-5	CA 19-9, Serum	A14
0536-3	CA 125, Serum	A14
0562-9	Estrogen, Total, Serum	A26
0568-6	Lyme Disease Antibody, Serum	A37



Test Code	Test Name	Page
0580-1	EBV Capsid Ab, IgM	A21
0582-7	EBV, Early Antigen Ab	A21
0583-5	EBV, Nuclear Antigen Ab, IgG	A21
0796-3	Rheumatoid Arthritis (RA) Factor	A48
0823-5	CA 27.29, Serum	A14
0900-1	Cortisol, Serum, Random	A18
1201-3	Human Chorionic Gonadotropin (HCG), Quantitative, Tumor Marker	A33
1644-4	Immunofixation, Urine, Random	A34
1754-1	Beta-2-Microglobulin, Urine, Random	A11
1765-7	Helicobacter pylori, IgG	A29
1766-5	Helicobacter pylori, IgA	A28
2088-3	Prostate Specific Antigen (PSA), Free and Total, Serum	A47
2130-3	CA 15-3, Serum	A14
2194-9	Low-density lipoprotein (LDL) Direct	A36
2665-8	Chlamydia trachomatis (CT), Urine, Probetec	A15
2666-6	Gonorrhea (GC), Urine, Probetec	A28
3283-9	Acute Hepatitis Panel for Medicare	A3
3320-9	C-Reactive Protein (hs-CRP), High Sensitivity	A13
3371-2	Microsatellite Instability (MSI-H) by PCR	A40
3412-4	HPV High/Low Risk by ISH	A33
3420-7	Hereditary Hemochromotosis (HFE): C282Y, H63D, S65C	A31
3422-3	Hepatic Function Panel	A29
3427-2	Comprehensive Metabolic Panel (CMP)	A18
3893-5	Free Kappa & Lambda Light Chain (serum)	A27
5024-5	AML - M2 (AML/ETO) (RUNX1/RUNX1T1) by FISH	A5
5025-2	AML - M4Eo inv(16) by FISH	A6
5026-0	BCL1/IGH (CCND1/IGH) by FISH	A9
5027-8	MYC/IGH by FISH	A42
5028-6	BCL6 by FISH	A10
5030-2	Automated UroVysion By FISH	A8
5031-0	TCR gamma by PCR	A50
5032-8	B-Cell, IGH by FISH	A8
5034-4	AML - M2 (AML/ETO) (RUNX1/RUNX1T1) by RT-PCR	A5
5035-1	AML - M4Eo inv(16) by PCR	A7
5038-5	TEL/AML1: t(12;21) by FISH	A50
5066-6	X/Y Bone Marrow Transplant Monitoring	A53
5080-7	IgH/TCR-GAMMA by PCR	A33
5097-1	Prostate Triple Stain	A47
5101-1	Hodgkin Lymphoma IHC Panel	A32
5103-7	Reactive Hyperplasia vs. Lymphoma (NHL) IHC Panel	A48
5104-5	Prostate Triple Stain- TC Only	A47
5106-0	Pathology Peripheral Smear Review	A45
5108-6	AE1/AE3- TC Only	A4
5110-2	ZAP-70- TC Only	A53
5111-0	Pathology Slide Consultation	A45
5116-9	Acute Leukemia/MDS IHC Panel	A3
5118-5	Breast Carcinoma, Marrow, IHC Micromets	A13
5122-7	Prostate Cancer/ Lymph Nodes	A47
5124-3	Metastatic Carcinoma (Breast, Colon) - Lymph Node	A39
5126-8	Metastatic Melanoma - Lymph Node	A40
5127-6	ER / PR / HER2- TC Only	A24
5129-2	ER / PR / Ki-67- TC Only, plus DNA- Global	A25
5131-8	ER / PR / Ki-67 / HER2 (Tech Only), plus DNA (Global)	A23
5152-4	Ki-67 by IHC	A34
5153-2	p53 by IHC	A44
5155-7	Minimal Residual Disease for CLL/SLL	A40



Test Code	Test Name	Page
5157-3	JAK2 V617F	A34
5160-7	ER / PR / DNA / Ki-67 - w/Interpretation	A22
5161-5	ER / PR / HER2 - w/Interpretation	A24
5162-3	ER / PR / DNA / Ki-67 / HER2 - w/Interpretation	A23
5163-1	ER / PR / Ki-67/ HER2 - w/Interpretation	A23
5170-6	Breast Carcinoma/Lymph Nodes/MM Metastasis	A13
5171-4	HER2 by IHC	A30
5175-5	GIST Profile	A28
5176-3	Breast Carcinoma, rule out Microinvasion	A13
5177-1	Small Round Cell Tumor IHC Panel	A49
5178-9	FLT3 Mutation Analysis	A27
5179-7	KIT (D816V) by PCR	A35
5181-3	Adenocarcinoma vs. Mesothelioma IHC Panel	A3
5182-1	PDGFR alpha/FIP1L1 by FISH	A46
5183-9	UGT1A1 Mutation Analysis	A51
5185-4	PNH- TC Only	A47
5190-4	Tumor of Unknown Primary IHC Panel	A51
5191-2	Spindle Cell Neoplasm IHC Panel	A49
5193-8	Hepatocellular vs. Cholangiocarcinoma vs. Metastasis IHC Panel	A30
5194-6	Germ Cell Tumor IHC Panel	A28
5195-3	Neuroendocrine Neoplasm IHC Panel	A43
5198-7	ER / PR - w/Interpretation	A22
5199-5	Bone Marrow Morphology	A11
5200-1	Bone Marrow Morphology - Core Only	A12
5202-7	Bone Marrow Morphology - Clot Only	A12
5207-6	Bone Marrow Slide Consult	A12
5211-8	Bone Marrow Morphology - Smears	A12
5218-3	Urine Cytology- TC Only	A52
5219-1	PDGFRbeta/TEL	A46
5223-3	IgVH Mutation Analysis	A33
5249-8	UroVysion- TC Only	A52
5250-6	Chromosome Analysis	A15
5254-8	Urine Cytopathology, Global	A52
5256-3	Comprehensive Slide Consult	A18
5259-7	HER2 FISH- TC Only	A31
5260-5	AML - M3 (PML/RARA) by FISH	A6
5261-3	AML - M3 (PML/RARA) by RT-PCR	A6
5262-1	HER2 by FISH	A30
5265-4	BCR/ABL: t(9;22) by FISH	A11
5269-6	AML: NPM1 Mutation Analysis	A7
5270-4	BCL2/IGH by FISH	A9
5271-2	BCL2/IGH by PCR	A10
5272-0	MPL515	A41
5273-8	BCL1, BCL2, BCL6 (FISH Panel)	A9
5278-7	B-Cell, IGH by PCR	A9
5280-3	CLL FISH Panel	A16
5281-1	MDS FISH Panel	A38
5282-9	Multiple Myeloma FISH Panel	A41
5285-2	Bone Marrow Smear Interpretation	A12
5287-8	CYP2D6: Tamoxifen Resistance (non-NY only)	A20
5288-6	KRAS	A35
5295-1	EGFR by PCR	A21
5296-9	CYP2D6 (NY Only): Tamoxifen Resistance	A19
5306-6	GenArray Molecular Karyotyping	A27
5307-4	JAK2 Exon 12	A34
5324-9	Comprehensive Urine Pathology	A18



Test Code	Test Name	Page
5404-9	CK-903- TC Only	A16
5405-6	HER2 by IHC- TC Only	A31
5406-4	ER / PR / HER2 - Reflex to HER2 by FISH	A24
5407-2	ER / PR / Ki-67 / HER2 - Reflex to HER2 by FISH	A24
5408-0	ER / PR / DNA / Ki-67 / HER2 - Reflex to HER2 by FISH	A23
5409-8	ZAP-70 by Flow Cytometry	A53
5425-4	ER / PR- TC Only	A25
5427-0	AML - M4 & M5 by FISH	A6
5428-8	HER2 by IHC - Reflex +2 to HER2 by FISH	A31
5433-8	ER / PR / Ki-67 / HER2- TC Only	A23
5434-6	CK-903 for Prostate Cancer	A16
5500-4	OneCheck Hematopathology	A43
5515-2	Acute Leukemia & Myeloid Disorders Analysis	A3
5516-0	Acute Leukemia & Myeloid Disorders Analysis- TC Only	A3
5535-0	Lymphoproliferative Disorder Analysis	A38
5536-8	Lymphoproliferative Disorder Analysis (Technical Only)	A38
5555-8	DNA Ploidy for Molar Pregnancy	A20
5564-0	Paroxysmal Nocturnal Hemoglobinuria (PNH) Test	A45
5573-1 5574-9	Plasma Cell Analysis	A46
	Plasma Cell Analysis - TC Only DNA Ploidy/S-Phase by Flow Cytometry	A46 A20
5575-6 5579-8	Multiple Myeloma IHC Panel	A20 A42
5726-5	Factor V Mutation (Leiden)	A42 A26
5727-3	Factor V (R2) Polymorphism	A26
5764-6	MTHFR C677T Gene Mutation	A41
5765-3	MTHFR A1298C	A41
5795-0	Prothrombin G20210A Mutation	A48
5847-9	CYP2C19 Pharmacogenomic (Plavix)	A19
5858-6	BCR/ABL Quantification by RT-PCR	A11
5891-7	KRAS if Negative Reflex to BRAF	A35
5893-3	BRAF V600E	A12
5988-1	AML Prognostic Panel: FLT3 & NPM1	A7
6237-2	Circulating Tumor Cells (CTC)	A15
6261-2	Warfarin Sensitivity	A52
6274-5	Non-Automated UroVysion	A43
6285-1	DPD 5-FU Genotype	A20
6290-1	CML: ABL Kinase Mutation Analysis	A17
7736-2	Helicobacter pylori, IgM	A29
8689-2	HPV High by ISH- TC Only	A32
8696-7	HPV High/Low by ISH- TC Only	A32
8714-8	HPV High by ISH	A32
8860-9	AML - CEBPA Mutational Analysis	A5
A130-7	Lung Histology IHC Panel	A37
A241-2	ALK by FISH (FDA)	A4
A276-8	ER / PR / Ki67 / p53 / HER2 FISH -TC Only plus DNA- Global	A25
A277-6	ER / PR / HER2 FISH- TC Only	A24
A278-4	ER / PR / Ki-67 / p53 / HER2 FISH- TC Only	A24
A300-6	ERCC1	A25
A311-3	1p/19q by FISH	A2
A313-9	MLH1 Promoter Hypermethylation	A41
A344-4	KIT/PDGFRA for GIST by PCR	A35
A346-9	Ki-67 by IHC- TC Only	A35
A347-7	p53 by IHC- TC Only	A45
A427-7	HER2 by FISH - Gastric/GEJ	A30
A428-5	HER2 by FISH for Gastric/GEJ- TC Only	A30 A45
A430-1	PDGFR alpha	A40



Test Code	Test Name	Page
A500-1	OneCheck Plus GenArray	A43
A566-2	BRAF V600E (FDA)	A13
A612-4	MET by IHC	A39
A635-5	OnkoMatch Tumor Genotyping	A44
A642-1	OnkoMatch Tumor Genotyping + for Lung	A44
A675-1	EGFR by PCR if neg. reflex to ALK	A21
A703-1	ALK by FISH	A4
A868-2	-7/7q- by FISH- TC Only	A1
A869-0	-5/5q- by FISH- TC Only	A1
A870-8	Trisomy 8 By FISH-TC Only	A51
A871-6	20q12 by FISH- TC Only	A2
A872-4	13q14 by FISH- TC Only	A1
A873-2	BCL1/IGH (CCND1/IGH) by FISH-TC Only	A9
A874-0	17p13 by FISH- TC Only	A2
A875-7	t(4;14) by FISH-TC Only	A49
A876-5	1q21 by FISH- TC Only	A2
A877-3	Trisomy 12 by FISH-TC Only	A51
A878-1	13q14.3 by FISH- TC Only	A2
A879-9	11q22.3 by FISH- TC Only	A1
A880-7	BCR/ABL by FISH-TC Only	A10
A881-5	AML-M3(PML/RARA) by FISH- TC Only	A7
A943-3	Mismatch Repair Protein (MMR) for Lynch Syndrome by IHC	A40
A944-1	Mismatch Repair Protein (MMR) for Lynch Syndrome by IHC- TC Only	A40
A951-6	ER / PR / Ki-67 / HER2 / p53, TC Only	A25
A952-4	Breast Carcinoma, rule out Microinvasion- TC Only	A13
A972-2	HER2 by IHC in Gastric/Gastroesophageal Carcinoma	A31
B236-1	ALK by FISH- TC Only	A4
B271-8	Myeloid and Lymphoid Short Panel	A43
B334-4	ROS1 by FISH	A48
B335-1	MET by FISH	A39
B336-9	MET by FISH - TC Only	A39
B338-5	Myeloid & Lymphoid Analysis (Short Panel) - TC Only	A42
B348-4	BCL6: 3q27 by FISH- TC Only	A10
B349-2	MYC/IGH: t(8;14) by FISH- TC Only	A42
B350-0	BCL2/IGH: t(14;18) by FISH- TC Only	A10
B365-8	Colon Reflex Dx	A17
B366-6	Lynch Syndrome Reflex Screening	A38
B367-4	Lung Adeno Reflex Dx	A36
B368-2	Lung Profile: KRAS, EGFR, EML4-ALK, ROS1	A37
B369-0	Lung Adenocarcinoma Targeted Therapy Profile	A37
B565-3	EML4-ALK by IHC	A22
B603-2	ALK by IHC - TC Only	A4
P260-3	ALL Prognosis Panel by FISH	A5
P261-1	AML Diagnostic Panel by FISH	A7
P263-7	Lung Adeno Reflex Panel: EGFR> KRAS> ALK	A36
P264-5	Colon DNA Mismatch Repair Reflex	A17
P960-8	MDS FISH Panel- TC Only	A39
P961-6	Multiple Myeloma FISH Panel-TC Only	A42
P962-4	CLL FISH Panel- TC Only	A16
Q429-3	OnkoMatch + for Lung, if ALK negative reflex to ROS1	A44



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