



## KNIGHT DIAGNOSTIC LABORATORIES

**Laboratory Shipping Address:** 2525 SW 3rd. Avenue

Suite 350 Portland, OR 97201

**Correspondence Address:** 3181 SW Sam Jackson Park Road

Mailstop MP-350 Portland, OR 97239

**Phone:** 855-KDL-1LAB (535-1522) - **Fax:** 855-KDL-1FAX (535-1329)

### BK Virus (Quantitative Viral Load)

**Test Code:** 3050

**Department:** Molecular Diagnostics

**Test Synonyms:**

Polyoma virus

BKV DNA

BKV quant

**CPT Code(s):**

83890

83896

83898

83908

**Background:**

Epidemiologic studies have shown a high seroprevalence rates for BK virus ranging from 60% to 100% beginning in childhood. BK virus reactivation or primary infection among immunocompromised patients is associated with disease of the kidney or urinary bladder. The severity, therapeutic response and clinical course of BK virus-associated disease have been correlated to BK viral load.

**Clinical Utility:**

Determination of BK viral load in plasma using PCR provides a rapid, highly specific and sensitive means for physicians diagnose and treat BK virus related morbidity.

**Methodology:**

BKV-PCR assay utilizes EraGen Bioscience MultiCode-RTx BK primer mix in conjunction with the MultiCode-RTx DNA Reagent Set for amplification of Polyomavirus BK. DNA is extracted from patient plasma using the Roche MagNa Pure LC 2.0 instrument in conjunctions with the Roche MagNa Pure LC Total Nucleic Acid – High Performance Kit.

**Lower Quantitation Limit:**

366 extracted copies of BKV

**Specificity:**

No cross-reactivity with other polyomaviruses including JC virus and SV-40 are seen.

**Specimen Requirements:**

- 5-10 mL of blood in purple (EDTA) tube (unspun) or
- 5-10 mL of a random urine specimen in 13-ml urine tube (unspun); no preservative.
- Keep blood at room temperature. Urine may be room temperature or frozen.

**A REQUISITION FORM MUST ACCOMPANY ALL SAMPLES.**

**Test Performed (Days):**

Tuesday and Thursday

**Turn Around Time:**

2-4 days



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### **Shipment Sensitivity Requirements:**

Keep specimen cold during transit, but do not ship on dry ice. Please contact Client Services for shipping kits and instructions. Use the cold pack provided in the KDL shipping kit. Ship the specimen overnight express, using the FedEx priority overnight label provided. The specimen must arrive at the lab no more than 24 hours after collection.

### **References:**

- 1) Reploeg MD, Storch GA, Clifford DB. BK virus: a clinical review. Clinical Infectious Disease 2001; 33(2):191-202.
- 2) Eragen MultiCode-RTx BK and DNA Reagent Set Package Inserts © 2011 Eragen Biosciences Inc.