

Certificate of Analysis List

For request number 373132

Catalog Number Entered	Lot Number Entered	Related Catalog Number	Related Lot Code	Description
199526	0335	2459300	0344A	Molybdate 3 Reagent for Silica
2106269	0305G	2459300	0344A	Citric Acid
2106269	0326	2459300	0344A	Citric Acid
2254069	0319	2459300	0344A	Amino Acid F Reagent

Total Enclosures: 4

***Certificate of Analysis*****This is a Component of 2459300 lot 0344A**

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COMMODITY: **Molybdate 3 Reagent for Silica**COMMODITY NUMBER: **1995-26**

MANUFACTURE DATE:

DATE OF ANALYSIS:

LOT NUMBER: **A0335****12/1/2010****12/1/2010**

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Concentration of a treated 1.0 ppm Silica standard measured at 815 nm in a one inch cell.	0.92 to 1.08 mg/l	1.019 mg/l
Absorbance of a treated deionized water sample measured at 815 nm in a one inch cell vs. untreated water.	0 to 0.007 abs	0.0010 abs

The expiration date is Dec 2015

Certified by

Scott Als
Analytical Services Chemist

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COMMODITY: **Citric Acid**COMMODITY NUMBER: **21062-69**LOT NUMBER: **A0305G**

MANUFACTURE DATE:

11/18/2010

DATE OF ANALYSIS:

11/4/2010

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Silica Function Test: %T of a 1.0 ppm Silica and 10.0 ppm phosphate standard measured at 700 nm in 1.0 cm cells vs the reagent blank.	68 to 74 %T	71.4 %T

The expiration date is Nov 2015

Certified by _____

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Analytical Services Chemist

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COMMODITY: **Citric Acid**COMMODITY NUMBER: **21062-69**LOT NUMBER: **A0326**

MANUFACTURE DATE:

11/23/2010

DATE OF ANALYSIS:

11/23/2010

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Silica Function Test: %T of a 1.0 ppm Silica and 10.0 ppm phosphate standard measured at 700 nm in 1.0 cm cells vs the reagent blank.	68 to 74 %T	68.8 %T

The expiration date is Nov 2015

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Analytical Services Chemist

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COMMODITY: **Amino Acid F Reagent**COMMODITY NUMBER: **22540-69**

MANUFACTURE DATE:

DATE OF ANALYSIS:

LOT NUMBER: **A0319****11/17/2010****11/17/2010**

<i>TEST</i>	<i>SPECIFICATIONS</i>	<i>RESULTS</i>
Absorbance of a 1 ppm Silica standard vs the reagent blank.	0.336 to 0.394 abs	0.3690 abs
Absorbance of a 3 ppm Silica standard vs the reagent blank.	1.022 to 1.168 abs	1.0360 abs
Absorbance of a reagent blank vs DI water at 700 nm in 1 inch cells.	-0.012 to 0.012 abs	0.0110 abs

The expiration date is Nov 2013

Certified by

A handwritten signature in cursive script that reads "Scott Als".

Scott Als
Analytical Services Chemist