

Sodium Citrate, Dihydrate, Granular  
Ultrapure Bioreagent



Material No.: 4093-06  
Batch No.: 0000023776  
Manufactured Date: 2012/06/27  
Retest Date: 2017/06/26

## Certificate of Analysis

Test	Specification	Result
Assay (C <sub>6</sub> H <sub>5</sub> Na <sub>3</sub> O <sub>7</sub> · 2H <sub>2</sub> O)	>= 99.0 %	99.5
ACS - Insoluble Matter	<= 0.005 %	< 0.001
pH of 5% Solution at 25°C	7.0 - 9.0	8.2
Chloride (Cl)	<= 0.002 %	< 0.001
Sulfate (SO <sub>4</sub> )	<= 0.005 %	< 0.003
Ammonia (as NH <sub>3</sub> )	<= 0.003 %	< 0.001
ACS - Calcium (Ca)	<= 0.005 %	0.001
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	< 3
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
DNase Activity (None Detected)	Passes Test	PT
RNase Activity	Passes Test	PT
Protease Activity	Passes Test	PT

For Laboratory, Research or Manufacturing Use

Country of Origin: US  
Packaging Site: Paris Mfg Ctr & DC



Phillipsburg, NJ 9001:2008, 14001:2004  
Paris, KY 9001:2008  
Mexico City, Mexico 9001:2008  
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003  
Gliwice, Poland 9001:2008, 17025:2005  
Selangor, Malaysia 9001:2008  
Dehradun, India, 9001:2008, 14001:2004, 13485:2003  
Mumbai, India, 9001:2008, 17025:2005  
Panoli, India 9001:2008

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