



# Sodium Citrate, Dihydrate, Crystal USP-GenAR

Product No. 7773  
Specifications current as of: Jun 8  
2011

TEST	SPECIFICATION
GMP Manufactured Product	
Meets U.S.P. Requirements	
Assay (C <sub>6</sub> H <sub>5</sub> Na <sub>3</sub> O <sub>7</sub> ) (anhydrous basis)	99.0 - 100.5 %
Alkalinity	Passes Test
Heavy Metals (as Pb)	max. 0.001 %
Identification A	Passes Test
Identification B	Passes Test
Tartrate	Passes Test
Water (H <sub>2</sub> O)	10.0 - 13.0 %
Meets BP/Ph.Eur. Chemical Specifications	
Assay (C <sub>6</sub> H <sub>5</sub> Na <sub>3</sub> O <sub>7</sub> ) (calculated on the anhydrous basis)	99.0 - 101.0 %
Identification A	Passes Test
Identification B	Passes Test
Acidity or Alkalinity	Passes Test
Heavy Metals (as Pb)	max. 10 ppm
Chloride (Cl)	max. 50 ppm
Oxalate (C <sub>2</sub> O <sub>4</sub> )	max. 300 ppm
Sulfate (SO <sub>4</sub> )	max. 150 ppm
Readily Carbonizable Substances	Passes Test
Water (H <sub>2</sub> O)	11.0 - 13.0 %
Appearance of Solution	Passes Test
Endotoxin Concentration (EU/g)	max. 5
Product Information (not specifications):	
Appearance (fine, white to slightly yellow crystals)	
Meets JP Chemical Specifications	
Assay (anhydrous basis)	99.0 - 101.0 %
pH (1 in 20)	7.5 - 8.5

Clarity and Color of Solution	Passes Test
Chloride (Cl)	max. 0.015 %
Identification	Passes Test
Sulfate (SO <sub>4</sub> )	max. 0.048 %
Heavy Metals (as Pb)	max. 10 ppm
Arsenic (As)	max. 2 ppm
Tartrate	Passes Test
Oxalate (C <sub>2</sub> O <sub>4</sub> )	Passes Test
Readily Carbonizable Substances	Passes Test
Loss on Drying at 180°C	10.0 - 13.0 %
No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.	
Bulk Pharmaceutical Chemical	
CAUTION: For manufacturing, processing or repacking.	
For a Certificate of Lot Analysis, visit <a href="http://www.avantormaterials.com">www.avantormaterials.com</a> .	