

Material No.: 0127-05 Batch No.: 0000171599 Manufactured Date: 2016/11/23

Retest Date: 2021/11/22

Certificate of Analysis

Meets B.P. Chemical Specifications, Meets E.P. Chemical Specifications, Meets J.P. Chemical Specifications, Meets U.S.P Requirements, GMP Manufactured Product

Test	Specification	Result
USP - Assay (HOC(COOH)(CH2COOH)2) (anhydrous	99.5 - 100.5 %	99.8
basis)		
USP - Clarity of Solution	Passes Test	PT
USP – Color of Solution	Passes Test	PT
USP - Identification	Passes Test	PT
USP – Residue on Ignition	<= 0.1 %	< 0.1
USP – Heavy Metals (as Pb)	<= 0.001 %	< 0.001
USP - Oxalic Acid	<= 0.036 %	< 0.036
USP – Sulfate (SO ₄)	<= 0.015 %	< 0.015
USP - Readily Carbonizable Substances	Passes Test	PT
USP - Identification C: Water (H2O)	<= 1.0 %	< 0.1
EP/BP - Assay (HOC(COOH)(CH ₂ COOH) ₂) (anhydrous basis)	99.5 - 100.5 %	99.8
EP/BP – Identification B	Passes Test	PT
EP/BP - Identification E	Passes Test	PT
EP/BP - Appearance of Solution	Passes Test	PT
EP/BP - Readily Carbonizable Substances	Passes Test	PT
EP/BP - Oxalic Acid	<= 360 ppm	< 360
EP/BP - Sulfate (SO ₄)	<= 150 ppm	< 150
EP/BP - Heavy Metals (as Pb)	<= 10 ppm	< 10
EP/BP - Water (H ₂ O)	<= 1.0 %	< 0.1
EP/BP – Ash (sulfated)	<= 0.1 %	< 0.1

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Test	Specification	Result
EP/BP – Endotoxin Concentration, <0.5 IU/mg	Passes Test	PT
P - Assay (HOC(COOH)(CH2COOH)2) (anhydrous basis)	99.5 – 100.5 %	99.8
P – Clarity and Color of Solution	Passes Test	PT
P – Identification	Passes Test	PT
P – Sulfate (SO4)	<= 150 ppm	< 150
P - Oxalic Acid	<= 360 ppm	< 360
P – Heavy Metals (as Pb)	<= 10 ppm	< 10
P – Readily Carbonizable Substances	Passes Test	PT
P – Residue on Ignition	<= 0.1 %	< 0.1
P – Water (H ₂ O)	<= 1.0 %	< 0.1
otal Aerobic Microbial Count, For Information Only	cfu/g	< 10
otal Yeasts and Molds Count, For Information Only	cfu/g	< 10
. coli	Negative	Negative
. aureginosa	Negative	Negative

Bulk Pharmaceutical Chemical

CAUTION: For Manufacturing, processing or repackaging

Must be subjected to further processing during the preparation of injectable dosage forms

No Class 1,2,3 or other solvents are used or produced in the manufacturing or purification of the product.

Storage Conditions: Preserve in Tight Containers

Country of Origin: US

Packaging Site: Paris Mfg Ctr & DC

Manufacturer: P0033001
Manufacturer source batch: S611238



Phillipsburg, NJ 9001:2008, 14001:2004, FSSC 22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Deventer, The Netherlands 9001:2008, 14001:2004, 13485:2003
Gliwice, Poland 9001:2008, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2008
Panoli, India 9001:2008

Jamie Ethier
Vice President Global Quality