



Material No.: 9012-03
Batch No.: 0000177747
Manufactured Date: 2017/06/30
Retest Date: 2022/06/29

Certificate of Analysis

Test	Specification	Result
Appearance	Passes Test	PT
Assay (GC)	$\geq 99.9\%$	100.0
Color (APHA)	≤ 10	5
Water (H ₂ O)	$\leq 0.02\%$	< 0.01
Gradient Elution Test (a.u.) – 254 nm	≤ 0.005	< 0.001
Residue after Evaporation	≤ 3 ppm	< 1
Titration Acid ($\mu\text{eq/g}$)	≤ 8.0	< 1.0
Titration Base ($\mu\text{eq/g}$)	≤ 0.6	< 0.1
Ultraviolet Absorbance (1.00 cm) – 200 nm	≤ 0.1	< 0.1
Ultraviolet Absorbance (1.00 cm) – 210 nm	≤ 0.05	0.01
Ultraviolet Absorbance (1.00 cm) – 220 nm	≤ 0.03	< 0.01
Ultraviolet Absorbance (1.00 cm) – 254 nm	≤ 0.01	< 0.01
Ultraviolet Absorbance (1.00 cm) – 280 nm	≤ 0.01	< 0.01
Ultraviolet Absorbance (1.00 cm) – 350 nm	≤ 0.01	< 0.01
Ultraviolet Absorbance (1.00 cm) – 400 nm	≤ 0.01	< 0.01
Ultraviolet Absorbance (1.00 cm) – UV Cut-off, nm	≤ 190	188

For Laboratory, Research or Manufacturing Use
Filtered through a 0.2 micron filter.

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



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

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Vice President Global Quality

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