



Material No.: 9012-03  
Batch No.: 0000219782  
Manufactured Date: 2019/01/12  
Retest Date: 2024/01/11  
Revision No: 1

## Certificate of Analysis

Test	Specification	Result
Appearance	Passes Test	PT
Assay (GC)	$\geq 99.9\%$	100.0
Color (APHA)	$\leq 10$	5
Water (H <sub>2</sub> O)	$\leq 0.02\%$	$< 0.01$
Gradient Elution Test (a.u.) – 254 nm	$\leq 0.005$	$< 0.005$
Residue after Evaporation	$\leq 3$ ppm	$< 3$
Titration Acid ( $\mu\text{eq/g}$ )	$\leq 8.0$	8.0
Titration Base ( $\mu\text{eq/g}$ )	$\leq 0.6$	0.6
Ultraviolet Absorbance (1.00 cm) – 200 nm	$\leq 0.1$	$< 0.1$
Ultraviolet Absorbance (1.00 cm) – 210 nm	$\leq 0.05$	0.01
Ultraviolet Absorbance (1.00 cm) – 220 nm	$\leq 0.03$	$< 0.01$
Ultraviolet Absorbance (1.00 cm) – 254 nm	$\leq 0.01$	0.01
Ultraviolet Absorbance (1.00 cm) – 280 nm	$\leq 0.01$	$< 0.01$
Ultraviolet Absorbance (1.00 cm) – 350 nm	$\leq 0.01$	$< 0.01$
Ultraviolet Absorbance (1.00 cm) – 400 nm	$\leq 0.01$	$< 0.01$
Ultraviolet Absorbance (1.00 cm) – UV Cut-off, nm	$\leq 190$	185

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 9001:2015, FSSC22000  
Paris, KY 9001:2008  
Mexico City, Mexico 9001:2008  
Gliwice, Poland 9001:2015, 13485:2012  
Selangor, Malaysia 9001:2008  
Dehradun, India, 9001:2008, 14001:2004, 13485:2003  
Mumbai, India, 9001:2015, 17025:2005  
Panoli, India 9001:2015

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