

Material No.: 9012-03  
Batch No.: 0000264055  
Manufactured Date: 2020/06/30  
Retest Date: 2025/06/29  
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	$\leq 0.005$	0.003
Residue after Evaporation	$\leq 3$ ppm	$< 2$
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

  
Jamie Ethier  
Vice President Global Quality