

Material No.: 9002-33
Batch No.: 22G2862020
Manufactured Date: 2022-06-30
Retest Date: 2027-06-29
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Ultraviolet Absorbance (1.00-cm cell vs. water) – 400–350 nm	≤ 0.01	< 0.01
Ultraviolet Absorbance (1.00-cm cell vs. water) – UV Cut-off, nm	≤ 330	329
Fluorescence Trace Impurities, measured as Quinine Base – at 450 nm Emission	≤ 0.3 ppb	0.2 ppb
Fluorescence Trace Impurities, measured as Quinine Base – at Emission Maximum for Impurities	≤ 1.0 ppb	0.4 ppb
Assay ((CH ₃) ₂ CO)(by GC)	≥ 99.3 %	100.0 %
Residue after Evaporation	≤ 2.0 ppm	< 1.0 ppm
Titration Acid (µeq/g)	≤ 0.3	0.3
Titration Base (µeq/g)	≤ 0.6	0.1
Water (H ₂ O)	≤ 0.4 %	0.3 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality