

**CERTIFICATE OF ANALYSIS
ACETONITRILE
LC Mass Spec Grade**

Lot # K20D09CAS0000ACN
Date of Manufacture: April 15, 2020
Recommended Retest Date: Two Years from Date of Manufacture
Main Catalog #: ZH30000LCMS

TEST	SPECIFICATIONS	RESULTS
Assay (by GC-FID)	Min 99.9 %	> 99.99 %
Color	Max 5 APHA	< 5 APHA
Fluorescence at emission maximum for Impurities at 254 nm	Max 1 ppb	< 1 ppb
GC-ECD Responsive residue (single peak) (as Heptachlorepoide)	Max 10 ppt	< 1 ppt
GC-FID Responsive residue (single peak) (as 2-Octanol)	Max 5 ppb	< 1 ppb
LC gradient elution suitability at 210 nm	Max 5 mAU	< 0.3 mAU
254 nm	Max 5 mAU	< 0.1 mAU
Residue after Evaporation	Max 1 ppm	< 0.1 ppm
Water (by KF coulometry)	Max 0.01 %	0.0004 %
Optical Absorbance at 190 nm	Max 1.00 AU	0.71 AU
195 nm	Max 0.14 AU	0.09 AU
200 nm	Max 0.05 AU	0.02 AU
210 nm	Max 0.04 AU	0.01 AU
220 nm	Max 0.02 AU	0.01 AU

Approved

Amanda Fenstermacher
Quality Assurance Clerk

58 Vale Road, Brookfield, Connecticut, 06804, USA | P. 800.243.5360
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TEST	SPECIFICATIONS	RESULTS
230 nm	Max 0.01 AU	0.01 AU
254 nm	Max 0.005 AU	0.003 AU
400 nm	Max 0.005 AU	0.001 AU
LC-MS Positive mode (as Reserpine)	Max 50 ppb	< 50 ppb
LC-MS Negative mode (as Nitrophenol)	Max 50 ppb	< 50 ppb
Aluminum (Al)	Max 0.5 ppm	< 0.0001 ppm
Barium (Ba)	Max 0.1 ppm	< 0.0001 ppm
Cadmium (Cd)	Max 0.5 ppm	< 0.0001 ppm
Calcium (Ca)	Max 0.1 ppm	0.0002 ppm
Chromium (Cr)	Max 0.02 ppm	< 0.0001 ppm
Cobalt (Co)	Max 0.02 ppm	< 0.0001 ppm
Copper (Cu)	Max 0.01 ppm	< 0.0001 ppm
Iron (Fe)	Max 0.1 ppm	< 0.0001 ppm
Lead (Pb)	Max 0.02 ppm	< 0.0001 ppm
Magnesium (Mg)	Max 0.1 ppm	< 0.0001 ppm
Manganese (Mn)	Max 0.01 ppm	< 0.0001 ppm
Nickel (Ni)	Max 0.02 ppm	< 0.0001 ppm
Potassium (K)	Max 0.1 ppm	< 0.0001 ppm

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TEST	SPECIFICATIONS	RESULTS
Silver (Ag)	Max 0.1 ppm	< 0.0001 ppm
Sodium (Na)	Max 0.1 ppm	0.0008 ppm
Tin (Sn)	Max 0.1 ppm	< 0.0001 ppm
Zinc (Zn)	Max 0.1 ppm	0.0002 ppm
Comments: Metal results are at time of packaging and may increase from extraction from the container.	Passes Test Passes Test	Pass Pass

Form: Acetonitrile LCMS Rev. 1.5 10-18 PB

This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical-device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.

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