



CERTIFICATE OF ANALYSIS

Product Name	Acetonitrile
Catalog #	ZH30000LCMS
Item #	101723
Batch #	K21G30CAS0000ACN
Date of Manufacture:	11/17/2021
Recommended Retest Date:	11/17/2023
Packaging Type	Case Glass 4x4 L
Packaged by	Greenfield Global USA Inc, 1101 Isaac Shelby Drive, Shelbyville, KY 40065

TEST	MONO-GRAPH	SPECIFICATION	RESULT	UNITS
Assay (by GC-FID)	LC/MS	NLT 99.9%	99.99	%
Color Pt-Co	LC/MS	5 max.	5	N/A
Fluorescence at emission maximum for Impurities at 254 nm	LC/MS	Max. 1 ppb	LT 1 ppb	N/A
GC-ECD Responsive residue (as Heptachlorepoxide)	LC/MS	Max. 10 ppt	LT 1 ppt	N/A
GC-FID Responsive residue (single peak) (as 2-Octanol)	LC/MS	Max. 5 ppb	LT 1 ppb	N/A
LC gradient elution suitability at 210 nm	LC/MS	Max. 5 mAU	0.3	AU
LC gradient elution suitability at 254 nm	LC/MS	Max. 5 mAU	0.1	AU
Potassium (K)	LC/MS	Max. 0.1 ppm	0.001	ppm
Silver (Ag)	LC/MS	Max. 0.1 ppm	LT 0.001 ppm	N/A
Aluminum (Al)	LC/MS	Max. 0.5 ppm	LT 0.001 ppm	N/A
Barium (Ba)	LC/MS	Max. 0.1 ppm	LT 0.001 ppm	N/A
Calcium (Ca)	LC/MS	Max. 0.1 ppm	0.001	ppm
Cadmium (Cd)	LC/MS	Max. 0.5 ppm	LT 0.001 ppm	N/A
Cobalt (Co)	LC/MS	Max. 0.02 ppm	LT 0.001 ppm	N/A



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Chromium (Cr)	LC/MS	Max. 0.02 ppm	LT 0.001 ppm	N/A
Copper (Cu)	LC/MS	Max. 0.01 ppm	LT 0.001 ppm	N/A
Iron (Fe)	LC/MS	Max. 0.02 ppm	0.001	ppm
Magnesium (Mg)	LC/MS	Max. 0.01 ppm	LT 0.001 ppm	N/A
Manganese (Mn)	LC/MS	Max. 0.02 ppm	LT 0.001 ppm	N/A
Sodium (Na)	LC/MS	Max. 0.1 ppm	0.001	ppm
Nickel (Ni)	LC/MS	Max. 0.5 ppm	LT 0.001 ppm	N/A
Lead (Pb)	LC/MS	Max. 0.1 ppm	LT 0.001 ppm	N/A
Tin (Sn)	LC/MS	Max. 0.1 ppm	LT 0.001 ppm	N/A
Zinc (Zn)	LC/MS	Max. 0.1 ppm	LT 0.001 ppm	N/A
LC-MS Negative Mode (as Nitrophenol)	LC/MS	Max. 50 ppb	LT 50 ppb	N/A
LC-MS Positive Mode (as Reserpine)	LC/MS	Max. 50 ppb	LT 50 ppb	N/A
UV Absorbance @190nm	LC/MS	Max. 1.00	0.45	AU
UV Absorbance @190nm	LC/MS	Max. 0.14	0.14	AU
UV Absorbance @200nm	LC/MS	Max. 0.05	0.02	AU
UV Absorbance @210nm	LC/MS	Max. 0.04	0.01	AU
UV Absorbance @220nm	LC/MS	Max. 0.02	0.01	AU
UV Absorbance @230nm	LC/MS	Max. 0.01	0.010	AU
UV Absorbance @254nm	LC/MS	Max. 0.005	0.003	AU
UV Absorbance @400nm	LC/MS	Max. 0.005	0.001	AU

Certification and Compliance Statements

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This lot of Acetonitrile, LC/MS Grade complies with all abovementioned specifications. Certain data have been supplied by third parties.

This product is for further commercial manufacturing, laboratory or research use. 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.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

This document was electronically signed by Garrett Lipic on 12/2/2021 4:22:28 PM to indicate Quality Assurance Approval and Release this document.