

Certificate of Analysis

Product: Acetonitrile
Grade: LC-MS
Part No.'s: 1930-5
CAS #: 75-05-8

Lot:	N29111
Mfg. Date:	2023-02-09
Exp. Date:	3 years after Mfg. Date

Manufactured by Duksan Pure Chemicals
LC-MS Suitability

Test	Unit	Specification	Results
ESI+ mode (as Reserpine)	ppb	Max. 50	<50
ESI- mode (as 4-Nitrophenol)	ppb	Max. 50	<50
Assay (by GC)	%	Min. 99.9	99.9
Color (APHA)		Max. 10	3
Water	%	Max. 0.01	0.001
Residue After Evaporation	ppm	Max. 1	<1
Titration Acid	mEq/g	Max. 0.008	0.0006
Titration Base	mEq/g	Max. 0.0006	0.00001
Ultraviolet Spectrophotometry			
Wavelength	Unit	Maximum UV Absorbance	Results
195	nm	0.15	0.05
200	nm	0.05	0.02
205	nm	0.04	0.01
210	nm	0.02	0.01
220	nm	0.01	0.005
254	nm	0.005	0.001
UV Cutoff	nm	Max. 190	<190
Gradient Elution Test			
Test	Unit	Specification (Max)	Results
Largest eluted peak (254nm)	mAU	0.5	<0.5

Largest eluted peak (210nm)	mAU	2	<2
Fluorescence Trace Impurities			
Test	Unit	Specification (Max)	
At 450nm Emission	ppb	0.3	<0.3
At Emission Maximum for Impurities	ppb	0.5	<0.5

Metal Impurities

Metal	Unit	Specification (Max)	Results
Aluminum (Al)	ppb	25	<1
Barium (Ba)	ppb	5	<1
Cadmium (Cd)	ppb	5	<1
Calcium (Ca)	ppb	25	<1
Chromium (Cr)	ppb	5	<1
Cobalt (Co)	ppb	5	<1
Copper (Cu)	ppb	5	<1
Iron (Fe)	ppb	5	<1
Lead (Pb)	ppb	5	<1
Magnesium (Mg)	ppb	25	<1
Manganese (Mn)	ppb	5	<1
Lithium (Li)	ppb	5	<1
Nickel (Ni)	ppb	5	<1
Potassium (K)	ppb	25	<1
Silver (Ag)	ppb	5	<1
Sodium (Na)	ppb	50	<1
Tin (Sn)	ppb	5	<1
Zinc (Zn)	ppb	5	<1

Created By:
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Quality
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