

## Certificate of Analysis

Product: Acetonitrile  
 Grade: HPLC  
 Part No.'s: 1910-5

Lot:	MCE203
Mfg. Date:	2022-12-14
Exp. Date:	3 years after Mfg. Date

Manufactured by Duksan Pure Chemicals  
 Meets ACS Specification

### Ultraviolet Spectrophotometry Maximum UV Absorbance:

Wavelength	Unit	Specification (Max)	Results
195	nm	0.15	0.07
200	nm	0.05	0.02
205	nm	0.04	0.02
210	nm	0.02	0.012
220	nm	0.01	0.005
254	nm	0.009	0.001
UV Cutoff	nm	190	<190

### LC Gradient Suitability

Gradient Elution Test	Unit	Specification (Max)	Results
Largest eluted peak (254nm)	mAU	0.5	<0.5
Largest eluted peak (210nm)	mAU	2	<2

Fluorescence Trace Impurities	Unit	Specification (Max)	Results
At 450nm Emission	ppb	0.3	<0.3
At Emission Maximum for Impurities	ppb	0.5	<0.5

Test	Unit	Specification	Results
Assay (by GC)	%	Min. 99.9	99.9
Color (APHA)		Max. 10	2
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

Created by:  
 James Osborn  
 Quality Supervisor