

## Certificate of Analysis

**Product: Methyl Alcohol**  
**Item Number: MALCMS**  
**Grade: LC/MS**  
**Lot Number: 21110346**  
**Manufacture Date: 03/01/2022**  
**Expiration Date: 02/28/2025**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Assay (by GC-FID) (Corrected for Water)	Min 99.9 %	> 99.99 %
Refractive Index at 20°C	1.3280 – 1.3288	1.3286
Water (by KF coulometry)	Max 0.05 %	0.0004 %
Residue after Evaporation	Max 1 ppm	0.6 ppm
LC Gradient elution suitability at		
220nm	Max 0.005 AU	< 0.0005 AU
254nm	Max 0.001 AU	< 0.0001 AU
Fluorescence at emission maximum for impurities	Max 0.30 ppb	< 0.30 ppb
LC-MS Positive mode (as Reserpine)	Max 50 ppb	< 50 ppb
LC-MS Negative mode (as Nitrophenol)	Max 50 ppb	< 50 ppb
Titration Acid	Max 0.0003 meq/g	0.0002 meq/g
Titration Base	Max 0.0002 meq/g	< 0.00002 meq/g
Aluminum (Al)	Max 50 ppb	< 1 ppb
Barium (Ba)	Max 5 ppb	< 1 ppb
Cadmium (Cd)	Max 5 ppb	< 1 ppb
Calcium (Ca)	Max 50 ppb	< 1 ppb
Chromium (Cr)	Max 5 ppb	< 1 ppb
Cobalt (Co)	Max 5 ppb	< 1 ppb
Copper (Cu)	Max 5 ppb	< 1 ppb
Iron (Fe)	Max 5 ppb	< 1 ppb

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Lead (Pb)	Max 5 ppb	<1 ppb
Magnesium (Mg)	Max 10 ppb	<1 ppb
Nickel (Ni)	Max 5 ppb	< 1 ppb
Potassium (K)	Max 10 ppb	< 1 ppb
Silver (Ag)	Max 5 ppb	< 1 ppb
Sodium (Na)	Max 50 ppb	2 ppb
Tin (Sn)	Max 5 ppb	< 1 ppb
Zinc (Zn)	Max 5 ppb	< 1 ppb
Manganese (Mn)	Max 5 ppb	< 1 ppb

#### Methyl Alcohol

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