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Certificate of Analysis

Product Description: Cryopres Dimethyl Sulfoxide
Catalog Number: 2780145; 2780148
Lot: S5196**Formula:** C₂H₆OS
CAS #: 67-68-5
Physical Description: Clear, Colorless Liquid**Formula Weight:** 78.13
Storage: 15 - 30°C, desiccate, store under nitrogen

Test	Specification	Result
Assay	≥99.9%	100.0% (anhydrous basis)
Identification Test (IR)	Compares with reference sample	Conforms
ID (Chemical Test)	Sol. in Chloroform, red soln	Conforms
Acidity	≤ 5.0 ml 0.01 N NaOH	0.7 mL 0.01 N NaOH
Water	≤ 0.1%	<0.01% (KF)
UV absorbance	No absorbance maxima between 270 and 350 nm	Pass
UV absorbance (275nm)	≤ 0.20	0.08
A285/A275	≤ 0.65	0.32
A295/A275	≤ 0.45	0.17
Limit of non-volatile Residue	≤ 0.01%/100g sample	0.00%
Related Compounds - Impurities	≤ 0.1%	0.00%
Refractive Index @25°C	1.4755 - 1.4775	1.4773
Specific Gravity	1.095 - 1.101	1.100
Sterility	Negative	Pass
Endotoxin	<0.5 EU/ml	Pass

Recommended Retest Date (MM/DD/YYYY): 12/01/2022



12/05/2020 - John Huang, PhD

MP Biomedicals, LLC.

Quality Control Manager

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