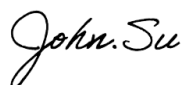


Certificate of Analysis

Date of Testing: 2023-04-13 15:50:57
 Date of Next Testing: 2027-04-12 15:50:57
 Product Name: **Dimethyl sulfoxide**
 CAS Number: 67-68-5
 Specifications & Purity: pharmaceutical
 Lot #: D23111090
 SKU #: **D103280**
Analysis: **194788**
 Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Refractive index n ₂₀ /D	1.477-1.48	1.48
UV Absorbance 275nm	0-0.3	0.23
Crystallization point	17-18.3 (°C)	18.10 °C
Evaporation Residue	0-0.01 (%)	0.00 %
UV Absorbance 295nm/275nm	0-0.45	0.43
UV Absorbance 285nm/275nm	0-0.65	0.61
Water by Karl Fischer	0-0.2 (%)	0.19 %
Density (20°C)	1.095-1.105	1.09
Acid Value	0-0.02 (mgKOH/g)	0.00 mgKOH/g
Assay	99.9-100 (%)	99.90 %
Identification	pass	Pass
Substances darkened by potassium hydroxide	Pass	Pass



John Su
QA & QC Manager