

## Certificate of Analysis

Date of Testing: 2023-09-13 15:35:13  
Date of Next Testing: 2027-09-12 15:35:13  
Product Name: **N,N-Dimethylformamide**  
CAS Number: 68-12-2  
Specifications & Purity: for biotechnology, ≥99.9%  
Lot #: H2325387  
SKU #: **D112007**  
**Analysis:** **265183**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Free Amines (as Dimethylamine)	0-8 (ppm)	1.02 ppm
UV Absorbance 310nm	0-0.05	0.02
UV Absorbance 295nm	0-0.1	0.05
UV Absorbance 400nm	0-0.01	0.00
Refractive index n <sub>20</sub> /D	1.428-1.432	1.43
Water by Karl Fischer	0-0.005 (%)	0.00 %
Titration Base	0-0.003 (mg)	0.00 mg
Titration Acid	0-0.0005 (mg)	0.00 mg
UV Absorbance 275nm	0-0.3	0.21
UV Absorbance 340nm	0-0.01	0.00
UV Absorbance 270nm	0-1	0.56
Purity(GC)	99.9-100 (%)	99.92 %
Evaporation Residue	0-0.0005 (mg/L)	0.00 mg/L
Appearance (D112007)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



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A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager