

## Certificate of Analysis

Date of Testing: 2024-03-08 14:19:06  
Date of Next Testing: 2028-03-07 14:19:06  
Product Name: **Dimethyl sulfoxide (DMSO)**  
CAS Number: 67-68-5  
Specifications & Purity: Super pure,  $\leq 0.02\%$  water  
Lot #: B2429248  
SKU #: **D591066**  
**Analysis: 328123**  
Storage Temperature: Room temperature, Argon charged

| Parameter  | Limit Values          | Result                |
|--|-----------------------|-----------------------|
| Purity(GC)   | 99.9-100 (%)          | 100.00 %              |
| Titrateable Acid(Free Acid As H <sub>2</sub> SO <sub>4</sub> ) | 0-0.001 (%)           | 0.00100 %             |
| Water by Karl Fischer  | 0-0.02 (%)            | 0.01 %                |
| Evaporation Residue  | 0-0.002 (%)           | 0.00 %                |
| Heavy metals(as Pb)  | 0-0.0001 (%)          | 0.00 %                |
| total bacterial value  | 0-100 (cfu/ml)        | 0.00000 cfu/ml        |
| endotoxin limit (LAL)  | 0-10 (EU/ml)          | 5.00000 EU/ml         |
| Iron(Fe)   | 0-0.0001 (%)          | 0.00 %                |
| Refractive index n <sub>20</sub> /D                            | 1.477-1.48            | 1.48                  |
| Appearance(D591066)  | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum  | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager