

## Certificate of Analysis

Date of Testing: 2022-08-15 08:54:04  
Date of Next Testing: 2026-08-14 08:54:04  
Product Name: **DL-Methionine**  
CAS Number: 59-51-8  
Specifications & Purity: 99%  
Lot #: H2209553  
SKU #: **M104886**  
Version: **0**  
Analysis #: **100693**  
Storage Temperature: Store at 2-8°C, Protected from light

| Parameter  | Limit Values                             | Result                                   |
|--|--|--|
| Nitrogen by Elemental Analysis   | 9.1-9.7 (%)                              | 9.42 %                                   |
| Carbon by Elemental Analysis   | 39.8-40.6 (%)                            | 40.38 %                                  |
| Purity(Nonaqueous Titration)   | 98.5-101.5 (%)                           | 99.20 %                                  |
| Appearance (M104886)   | White Powder, Crystals, Flakes, or chips | White Powder, Crystals, Flakes, or chips |
| Infrared spectrum  | Conforms to Structure                    | Conforms to Structure                    |
| Proton NMR spectrum  | Conforms to Structure                    | Conforms to Structure                    |
| Solubility in H <sub>2</sub> O , Colorless, Clear, 50 mg/ml H <sub>2</sub> O | pass                                     | Pass                                     |



John Su  
QA & QC Manager