

## Certificate of Analysis

Date of Testing: 2022-09-20 14:54:14

Date of Next Testing: 2026-09-19 14:54:14

Product Name: **L-Cysteine**

CAS Number: 52-90-4

Specifications & Purity: ≥98%,from non-animal source,for cell culture

Lot #: I2217197

SKU # **C108238**

**Analysis: 133215**

Storage Temperature: Store at 2-8°C,Argon charged

| Parameter   | Limit Values             | Result                   |
|---|--------------------------|--------------------------|
| Sulfate(SO42-)  | 0-0.03 (%)               | 0.02 %                   |
| (As)Arsenic   | 0-1 (ppm)                | 0.60 ppm                 |
| Assay   | 98-100 (%)               | 99.70 %                  |
| Iron(Fe)  | 0-10 (ppm)               | 5.00 ppm                 |
| Ammonia (NH4)   | 0-0.02 (%)               | 0.01 %                   |
| Heavy metal (as Pb)   | 0-10 (ppm)               | 6.30 ppm                 |
| Chloride (Cl-)  | 0-0.04 (%)               | 0.03 %                   |
| Specific Rotation [α] <sub>20</sub> /D(c=8 in 1 M HCl)                          | 8.3-9.5 (°)              | 8.70 °                   |
| Endotoxin Assay   | 0-1 (EU/mg)              | 0.98 EU/mg               |
| Appearance (C108238)  | White Powder or Crystals | White Powder or Crystals |
| Infrared spectrum   | Conforms to Structure    | Conforms to Structure    |
| Solubility in H <sub>2</sub> O , Clear Colorless ,c = 25mg/ml, H <sub>2</sub> O | pass                     | Pass                     |
| Cell Culture Test   | pass                     | Pass                     |
| Cell Line test  | Attached Cell Line       | Attached Cell Line       |



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