

## Certificate of Analysis

<b>Product Name</b>	L-Cysteine	<b>Batch No.</b>	M25M02145
<b>CAS No.</b>	52-90-4	<b>MFG. Date</b>	Feb 14, 2025
<b>CAT No.</b>	R056685	<b>Retest Date</b>	Feb, 2027
<b>Items</b>	<b>Specification</b>	<b>Results</b>	
<b>Appearance</b>	White crystals or crystalline powder	Conform	
<b>Assay</b>	98.0%~101.0%	99.64%	
<b>Specific rotation[a]<sub>D20</sub>°</b>	+8.3° ~+9.5°	+8.52°	
<b>State of solution (Transmittance)</b>	≥95.0%	99.1%	
<b>Loss on drying</b>	≤0.50%	0.10%	
<b>Residue on ignition</b>	≤0.10%	0.08%	
<b>Heavy metals(Pb)</b>	≤10PPM	<10PPM	
<b>Arsenic(As<sub>2</sub>O<sub>3</sub>)</b>	≤1PPM	Conform	
<b>Iron(Fe)</b>	≤10PPM	<10PPM	
<b>Ammonium(NH<sub>4</sub>)</b>	≤0.02%	<0.02%	
<b>Sulfate(SO<sub>4</sub>)</b>	≤0.030%	<0.030%	
<b>Other amino acids</b>	Chromatographically	Qualified	

<b>PH value</b>	4.5~5.5	5.10
<b>Conclusion</b>	Corresponds.	
<b>Storage Condition</b>	Keep container tightly closed in a dry and well-ventilated place.	

**QC:***Alex Foster***QA:***Felix Hobart*