

1138 – L – CYSTEINE (FREE BASE)

REF NO: TBL/QA/SS/LC/1138	STANDARD SPECIFICATION FOR L – CYSTEINE (FREE BASE)	Rev. No: 03
Issue No: 04		Review Date: 12/11/2024
Issue Date:13/11/2021		Product code: 1138

PRODUCT PROPERTIES

C.A.S Number	52-90-4
Chemical Formula	C ₃ H ₇ NO ₂ S
Formula weight	121.17
Functional Uses	L-cysteine can be used as a cysteine source to prepare L-cysteine functionalized gold nanoparticles for use as probes in the colorimetric detection of Hg ²⁺ in aqueous solution.
Standard Packaging	5 gm, 25 gm & 100 gm

PHYSICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Appearance	White Crystalline Powder.

CHEMICAL PARAMETERS

PRODUCT PARAMETER	SPECIFICATION
Loss on Drying	NMT – 0.05%
Total Ash	NMT – 0.05%
Sulphate (SO ₄)	NMT – 0.005%
Chloride (Cl)	NMT – 0.005%
Lead (Pb)	NMT – 0.0005%
Assay	NLT – 99.0%
Loss on Drying	NMT – 0.05%

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

