

Certificate of Analysis

Product Name: L-Cystine

Lot No.:

PKG Size:

Tomo Chemical Co. Ltd.

4th Floor, 4-7-19 Kudan-minami, Chiyoda-ku

Tokyo 102-0074 JAPAN

Test Item	Specification	Result
Appearance	White crystalline powder	Passes test
Purity test		
Optical rotation $[\alpha]_D^{20}$	-230 - 215°	-217.0°
Solubility	Colorless	Passes test
Chloride	max. 0.021 %	In a range
Sulfate	max. 0.030 %	In a range
Ammonium	max. 0.020 %	In a range
Heavy metal (as Pb)	max. 20 ppm	In a range
Arsenic (as As ₂ O ₃)	max. 2 ppm	In a range
Loss on drying	max. 0.4 %	0.00%
Residue on ignition	max. 0.1 %	0.00%
Content	97.0 - 102.0 %	99.70%
Iron	max. 1 ppm	In a range
Mesh size	60 - 80 mesh	Passes test

Inspecting Section Manager