

武汉远大弘元股份有限公司
WUHAN GRAND HOYO CO., LTD.

质 检
CERTIFICATE OF ANALYSIS
WUHAN GRAND HOYO CO., LTD. QUALITY CONTROL WUBC
武汉远大弘元股份有限公司 检验专用章(3)
C201-202303025-1

产品名称: L-半胱氨酸盐酸盐一水物
Product: L-Cysteine HCL Monohydrate
重量: Quantity: 1000kg
批号: Lot No: C201-202303025
CAS No: (7048-04-6)
报告日期: Date: MAY 18, 2023

Item 项 目	Specification 标准	Result 检测结果
外观 Appearance	White crystalline powder	Conforms
鉴别 Identification	Infrared Absorption	Conforms
溶解性 Solubility	Freely soluble in water and in ethanol	Conforms
比旋度 Specific rotation: $[\alpha]_D^{20}$ (Dried Sample)	+5.5 to+ 7.0°	+ 6.0°
溶解状况 State of solution (Transmittance)	Clear and colorless Not less than 98.0%	99.7%
含氯量 Chloride(Cl)	19.89 to 20.29%	20.12%
铵 盐 Ammonium(NH ₄)	Not more than 0.02%	<0.02 %
硫酸根 Sulfate(SO ₄)	Not more than 0.020%	<0.020%
铁 Iron(Fe)	Not more than 10ppm	<10ppm
重 金 属 Heavy metals(Pb)	Not more than 10ppm	<10ppm
铅 Lead	Not more than 3ppm	<3ppm
砷 Arsenic(as As ₂ O ₃)	Not more than 1ppm	<1 ppm
镉 Cadmium(Cd)	Not more than 1ppm	<1ppm
汞 Mercury(Hg)	Not more than 0.1ppm	<0.1ppm
其他氨基酸 Other amino acids	Chromatographically Not detectable	conforms
干燥失重 Loss on Drying	8.5 to 12.0%	10.3%
灼烧残渣 Residue on ignition(sulfated)	Not more than 0.10%	<0.10%
含 量 Assay	99.0 to 100.5 %	100.0%
pH	1.5 to 2.0	1.7
粒度 Particle Size	20Mesh	Conforms
Total Aerobic Viable Count	1000 CFU/G Max	Conforms
Mold and Yeast	100 CFU/G Max	Conforms
Coliforms	10CFU/G Max	Conforms
Salmonella	Negative/25g	Negative/25g
E.coli	Negative/25g	Negative/25g
Pseudomonas	Negative/25g	Negative/25g
S.Aureus	Negative/25g	Negative/25g

结论 Conclusion: Agree with the specification of AJ192.

Manu. Date: MAR 10, 2023

Expire Date: MAR 09, 2025

检验报告员 Inspector: 陈彩霞

复核人 Auditor: 赵敏

质检部负责人 Chief of QC: 张辉