



SHANDONG TIANLI PHARMACEUTICAL CO., LTD.

South of Weigao Road and East of West Second Ring Road (Chenming Industrial Park)

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CERTIFICATE OF ANALYSIS

Product Name: Ascorbic Acid

Quantity: 18MT

Batch No.: 012411042

Date of Certificate: Nov.21, 2024

Date of Manufacture: Nov.17, 2024

Date of Expiry: Nov.16, 2027

Items	Standard	Results
Appearance	White crystalline powder	White crystalline powder
Identification	Positive	Positive
Clarity of solution	Clear	Clear
Color of solution	≤BY ₇	<BY ₇
Assay	99.0~100.5%	99.5%
Loss on Drying	≤0.4%	0.05%
*Residue on ignition	≤0.1%	0.03%
Specific rotation	+20.5°~ +21.5°	+20.87°
PH(with 2% water solution)	2.4-2.8	2.50
PH(with 5% water solution)	2.1-2.6	2.30
Melting range	About 190℃	191℃
Heavy metals	≤3ppm	<3ppm
*Iron	≤2ppm	<2ppm
*Copper	≤2ppm	<2ppm
*Impurity E	≤0.2%	<0.2%
*Arsenic	≤1ppm	<1ppm
*Lead	≤1ppm	<1ppm
*Cadmium	≤1ppm	<1ppm
*Mercury	≤0.1ppm	<0.1ppm
*Organic volatile impurities	Methanol ≤3000ppm	<3000ppm
*Related Substances	Impurity C≤0.15% Impurity D≤0.15% Any other unspecified impurities ≤0.10% Total impurity≤0.2%	Complies
*Total Plate Count	≤1,000cfu/g	<1,000cfu/g

According to BP2021/USP43/FCC12/EP10/E300

Tester Li Jianting

Checked by Mu Yonghua

Approved by Yuan Weiting

*These items are periodic analyses.

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PASS