

ASES CHEMICAL WORKS

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CERTIFICATE OF ANALYSIS

1. Name of the Product	L-ascorbic acid (Vitamin C)
2. INCI Name	L-ascorbic acid
3. CAS No	50-81-7
4. Mfg. Date	As on Label 2024
5. Date Of Exp	As mentioned on Label
6. Date of Analysis	June - 2024

Test Items	Specifications	Test Results
Appearance	White or almost white crystalline powder	Conforms
Assay	99.00~100.50%	99.80%
Particle size	≥80% through 325 mesh	94.79%
Melting Point	~190°C	190.6°C
Specific Rotation	+20.50°~+21.50°	+21.05°
pH (2% water solution)	2.4-2.8	2.4
pH (5% water solution)	2.1-2.6	2.3
Clarity of Solution	Clear	Conforms
Color of Solution	≤BY7	<BY7
Copper	≤5ppm	<5ppm
Iron	≤2ppm	<2ppm
Zinc	≤25ppm	<25ppm
Heavy Metals	≤10ppm	<10ppm
Arsenic	≤3ppm	<1ppm
Cadmium	≤1ppm	<1ppm
Lead	≤2ppm	<2ppm
Mercury	≤0.1ppm	0.1ppm
Oxalic Acid	≤0.20%	<0.20%
Residual Solvents (Ethanol)	≤3000ppm	<3000ppm
Residual Solvents (Methanol)	≤3000ppm	<3000ppm
Related Substances (Impurity C)	≤0.15%	<0.10%
Related Substances (Impurity D)	≤0.15%	<0.10%
Related Substances (Unspecified impurity)	≤0.10%	<0.10%
Related Substances (Total impurity)	≤0.20%	<0.20%
Related Substances (Disregard limit)	≤0.05%	<0.05%
Related Substances (Impurity E)	≤0.20%	<0.20%
Loss on Drying	≤0.40%	0.04%
Residue on Ignition	≤0.10%	0.10%
Total Plate Count	≤1000 cfu/g	<1000 cfu/g
Yeast and Mold	≤100 cfu/g	<100 cfu/g
Coliforms	Negative	Negative
Salmonella	Negative	Negative
Staph. Aureus	Negative	Negative
Salmonella	Negative	Negative

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.