

COVITAS
可维塔斯

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Certificate of Analysis

Report No: SPVC05_20230428

Production Name	Ascorbic acid	Production Code	SPVC05
Batch No	1123018096	Manufacture Date	2023-01-29
Quantity	8100kg	Analysis Date	2023-02-02
Foundation	USP43	Expiry Date	2026-01-28

Results of Analysis:

Items	Standards	Results
Appearance	White or almost white, crystalline powder or colourless crystals.	Qualified
Identification	Positive Reaction	Qualified
Specific optical rotation	+20.5°~+21.5°	+20.83°
pH(with 5% water solution)	2.1~2.6	2.4
pH(with 2% water solution)	2.4~2.8	2.6
Impurity E*	≤0.20%	Conform
Clarity of solution	Clear	Clear
Colour of solution	≤BY ₇	<BY ₇
Assay(C ₆ H ₈ O ₆)	99.0%~100.5%	99.9%
Melting point	190~192°C	190.8-191.9°C
Impurities C, D*	≤0.15%	Conform
Unspecified impurities (each impurity)*	≤0.10%	Conform
Sum of impurities other than C and D*	≤0.20%	Conform
Particle size distribution	≥95.0% through #20 mesh	100%
Particle size distribution	≤30.0%through #100 mesh	14.4%
Residue on ignition**	≤0.1%	<0.1%
Loss of Drying*	≤0.4%	Conform
Heavy metal**	≤10.0 mg/kg	Conform
Iron**	≤2.0 mg/kg	Conform
Copper**	≤5.0 mg/kg	Conform
Lead**	≤0.5 mg/kg	Conform
Arsenic**	≤1.0 mg/kg	Conform
Cadmium(Cd)**	≤0.5 mg/kg	Conform
Mercury**	≤0.1 mg/kg	Conform
Residual Solvents(as methanol)*	≤3000 mg/kg	Conform
Total Plate Counts*	≤1000 cfu/g	Conform
Yeasts and Moulds*	≤100 cfu/g	Conform
Escherichia coli*	Negative in 10g	Conform
Salmonella*	Negative in 25g	Conform
Staphylococcus Aureus*	Negative in 25g	Conform

*Test once every three months.

**Test once every six months.

Reporter:

王爽

Reviewer:

王帅杰

Approver:

郑友

QC Manager:Leyou Zheng