

COVITAS
信恒

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Certificate of Analysis

Invoice No: 243975

Report No: SPVC05_20231560

Production Name	Ascorbic acid	Production Code	SPVC05
Batch No	1123080164	Manufacture Date	2023-08-06
Quantity	4500kg	Analysis Date	2023-08-07
Foundation	USP43	Expiry Date	2026-08-05

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°	+20.76°
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 - 191.7°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	13.3%
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 Solvent(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:

王杰

Approver:

郑友友

QC Manager: Leyou Zheng