

## Certificate of Analysis

<b>Item Number</b>	<b>Product Description</b>	<b>Lot Number</b>
CPB-A50040-500GM	CHEMPURE L-Ascorbic Acid [Vitamin C], 500 G	192363-223718
<b>Formula</b>	<b>Molecular Weight</b>	<b>CAS Number</b>
C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>	176.1	50-81-7

**QC TEST/RELEASE DATE:** 03/06/2023

**SUGGESTED RETEST DATE:** 10/10/2025

S.No	Test	Unit	Specifications	Test Value
1	Appearance		White crystalline powder	passed
2	Assay	%	99.0 - 100.5	99.5
3	Identification		Positive Reaction	passed
4	Melting Point	°C	About 190	192.2
5	pH (2% Solution)		2.4 - 2.8	2.5
6	pH (5% Solution)		2.1 - 2.6	2.3
7	Solubility in Water 80%		0.33 g/ml	passed
8	Clarity of Solution		Clear	passed
9	Color of solution		BY, Maximum	passed
10	Loss on Drying	%	≤ 0.4	< 0.4
11	Residual Solvents		Meet Requirements	Conforms
12	Specific Optical Rotation	°	+20.5 - +21.5	+21.0
13	Sulfate Ash	%	≤ 0.1	< 0.1
14	Copper	ppm	≤ 5	< 5
15	Heavy Metals	ppm	≤ 10	< 5
16	Iron	ppm	≤ 2	< 2
17	Lead	mg/kg	≤ 2	< 1
18	Cadmium (Cd)	mg/kg	≤ 1	< 1

19	Oxalic Acid	%	≤ 0.2	< 0.2
20	Arsenic	ppm	≤ 3	< 1
21	Mercury	mg/kg	≤ 0.1	< 0.1
22	BSE/TSE		BSE/TSE Free	passed
23	Grade		Complies to USP/BP/EP	passed
24	Country of Origin		Report	China

This is to certify that samples of the lot number above were tested and found to comply with the stated specifications. Some or all data have been provided by vendors/third parties. ChemPure Brand Chemicals expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular use or purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in research and further manufacturing only. **NOT FOR DIRECT USE IN FOOD, DRUG, HUMANS, ANIMALS OR MEDICAL DEVICES.** Persons using this information should make their own determination regarding its suitability for their particular use.

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