

CERTIFICATE OF ANALYSIS

Product Name	Vitamin C (L-ascorbic acid)
INCI Name	L-ascorbic acid
CAS#	50-81-7
Lot Number	240320-C02
Manufacture Date	03/2024
Re-test Date	03/2027

Analytical Tests	Requirements	Results
Appearance	White or almost white, crystalline powder or colourless crystals	CONFORMS
Solubility	Freely soluble in water, sparingly soluble in alcohol, insoluble in chloroform, ether and benzene	CONFORMS
Identification	CONFORMS	CONFORMS
Melting Point	189.0~193.0 °C	190.0 °C
pH (5% W/V)	2.1~2.6	2.34
pH (5% W/V)	2.4~2.8	2.53
Specific optical rotation	+20.50°~+21.50°	+20.9°
Clarity and color of sol.	Solution S is clear and not more intensely coloured than ref. sol. BY7	Up to Standard
Assay	99.0%-100.5%	99.7%
Copper	≤5ppm	<0.01ppm
Iron	≤2ppm	0.10ppm
Mercury	≤1ppm	0.02ppm
Arsenic	≤3ppm	< 3ppm
Lead	≤2ppm	0.02ppm
Impurity E (Oxalic acid)	≤0.2%	<0.2%
Loss on Drying	≤0.4%	0.02%
Sulfatad Ash (Residue on Ignition)	≤0.1%	0.03%
Related Substances:		
Impurity C	≤0.15%	<0.006%
Impurity D	≤0.15%	<0.002%
Unspecified Impurities	≤0.10%	HD
Total Impurities	≤0.2%	HD
Residual Solvents:		
Methanol	≤3000ppm	87 ppm

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

Pass Rate:	
40 mesh	73.2%
80 mesh	33.4%
100 mesh	26.1%

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight.
When stored for more than 36 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.