

## **CERTIFICATE OF ANALYSIS**

<b>Product Name</b>	Vitamin C (L-ascorbic acid)
<b>INCI Name</b>	L-ascorbic acid
<b>CAS#</b>	50-81-7
<b>Lot Number</b>	18302061
<b>Manufacture Date</b>	04/2023
<b>Re-test Date</b>	04/2025

<b>Analytical Tests</b>	<b>Requirements</b>	<b>Results</b>
<b>Color</b>	White	CONFORMS
<b>Appearance</b>	Powder	CONFORMS
<b>Color of solution</b>	Not more than BY7	CONFORMS
<b>Clarity of Solution</b>	Clear	CONFORMS
<b>Identification</b>	Positive	CONFORMS
<b>Assay</b>	99.00~100.50%	99.2%
<b>Loss on drying</b>	<=0.40%	0.20%
<b>Residue on Ignition</b>	<=0.10%	0.06%
<b>Specific Rotation</b>	20.50~21.50	21.30
<b>pH Value</b>	2.1~2.6	2.4
<b>Related Substance</b>	Meets Requirements	Meets Requirements
<b>Melting Point</b>	190.0~192.0 C	191.0 C
<b>Oxalic Acid</b>	0.2% max.	<0.2%
<b>Heavy Metals</b>	10 ppm max.	10 ppm max.
<b>Arsenic</b>	<= 1.000 ppm	CONFORMS
<b>Cadmium</b>	<= 1.000 ppm	CONFORMS
<b>Lead</b>	<= 1.000 ppm	CONFORMS
<b>Mercury</b>	<= 1.00 ppm	CONFORMS
<b>Copper</b>	5 ppm max	CONFORMS
<b>Iron</b>	<=2.0 ppm	CONFORMS
<b>Total Palte Count</b>	<1,000 cfu/g	CONFORMS
<b>Yeast and Mold</b>	<= 100 cfu/g	CONFORMS

**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.

<b>E. Coli</b>	Negative	Negative
<b>Coliforms</b>	<=100 cfu/g	<=100 cfu/g
<b>Salmonella</b>	Negative	Negative
<b>Staphylococcus Aureus</b>	Negative	Negative
<b>Mesh Size</b>	About 100 mesh	90% thru 100 mesh; 62% thru 150 mesh;
<b>Salmonella</b>	0.40~0.90 g/ml	0.71 g/ml
<b>Staphylococcus Aureus</b>	0.60~1.20 g/ml	1.01 g/ml

#### STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight.  
When stored for more than 24 months, quality should be checked before use.

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