



## CERTIFICATE OF ANALYSIS

<b>Product Name</b>	L-Ascorbic Acid 2-Glucoside(AA2G)		
<b>INCI</b>	3-O-Ethyl Ascorbic Acid		
<b>Batch Number</b>	20230115	<b>Manufacture Date</b>	20230115
<b>Country of Origin</b>	China		
<b>Report Date</b>	20230115	<b>Expiry Date</b>	20250114

Item	Specification	Result	Method
Assay	>98.0%	99.6%	HPLC
<b>Organoleptic Data</b>			
Appearance	Powder	Conform	GJS-QCS-1008
Color	White crystalline powder	Conform	GB/T 5492-2008
Odor	Characteristic	Conform	GB/T 5492-2008
Taste	Characteristic	Conform	GB/T 5492-2008
<b>Physical Characteristics</b>			
Melting point	158~163°C	161	GB21781-2008T
Clarity of water solution	Transparency, colorless, none suspended matters	pass	Visual
Specific optical rotation	【α】 D20 = +186~188°	+187.0	GB 613-88
Free ascorbic acid	≤0.1%	0.08%	GB/T 5507-2008
Free glucose	≤0.1%	0.09%	GB/T 14769-1993
<b>Heavy Metals</b>			
Total Heavy Metals	<10 ppm	Conform	USP <231>, method II
Arsenic	<1.0 ppm	Conform	AOAC 986.15, 18th
Lead	<1.0 ppm	Conform	AOAC 986.15, 18th
Mercury	<0.5 ppm	Conform	AOAC 971.21, 18th
<b>Microbiology</b>			
Total Plate Count	<1,000cfu/g	Conform	AOAC 990.12, 18th
Total Yeast & Mold	<100cfu/g	Conform	FDA (BAM) Chapter 18,
E. Coli	Negative	Negative	AOAC 997.11, 18th
Salmonella	Negative	Negative	FDA (BAM) Chapter 5,

Storage: Store in tight, light-resistant containers, avoid exposure to direct sunlight, moisture and excessive heat. Shelf Life: 24 months if store under the conditions above and stay in original packaging.