Product name	Vitamin C (ASCORBIC ACID) (Food grade)
Batch Number	202003125
Packing Specifications	25kg/ carton
Batch Quantity	20000kgs
Test Amount	200grams
Manufacture Date	Mar.28,2020
Date of Certificate	Mar.30,2020
EXP time	Mar.27,2023
Test Standard	GB14754-2010

ANALYSIS	SPECIFICATION	RESULTS
Appearance	White or yellowish crystalline or crystalline powder, odourless	Complies
Identify	Should be positive reaction	Positive reaction
	Should be positive reaction	Positive reaction
	Infrared spectroscopy is corresponding to reference spectrum.	Complies
Vitamin C (C6H8O6,W/%)	≥99.0	99.60
Mesh	40-60	Complies
Specific rotation α m (20°C, D)/((0).d \mathbb{m}^2 .g-1)	+20.5~+21.5	+20.9
Residue on ignition, W/%	≤0.10%	0.03%
Heavy Metal	≤10	<10
Pb/(mg/kg)	≤2	<2
As (mg/kg)	≤3	<3
Fe(mg/kg)	≤2	<2
Cu(mg/kg)	≤5	<5

Conclusion	Conform with specification of GB14754-2010
Storage	Store in sealed containers at cool & dry place. Protect from light, moisture and pest infestation.
	moisture and pest infestation.

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Quality Assurance Officer Quality Control

Certificate of Analysis

Ascorbic Acid

Product name: Ascorbic Acid Packing size: 25kg/件(piece)
Batch No: 6052331912003 Sample source: Workshop303
Quantity: 18000.00kg Packing Quantity: 720 件(pieces)
Manufacture date: 2019.12.02 Sampling date: 2019.12.03
Expiry date: 2022.12.01 Report date: 25kg/件(piece)

According to: BP2018/USP39/EP9.0/FCC8/E300

Item	Spec.	Result		
[Characteristics]				
Appearance	White or almost white, crystalline powder or crystals	A white crystalline powder		
Melting point	About 190°C, with decomposition	191℃		
[Identification]				
Infrared Absorption spectrum	Infrared absorption spectrum accord with the reference spectrum of ascorbic acid CRS	Meets the requirements		
pH(With 5% water	2.1~2.6	2.3		
solution)				
pH (With 2% water solution)	2.4~2.8	2.5		
[Tests]				
Appearance of solution	Clarity: clear; Colour: ≤BY7	Clarity: clear; Colour: < BY7		
Specific optical rotation	+20.5° ~+21.5°	+21.1°		
Loss on Drying	≤0.4%	0.04%		
Impurity E	≤0.2%	Meets the requirements		
Related substance	Impurity C: ≤0.15%;	Impurity C: Undetectable		
	Impurity D: ≤0.15%;	Impurity D: Undetectable		
	Unspecified impurities: ≤	Unspecified impurities:		
	0.10%;	Undetectable;		
	Total impurities: ≤0.2%	Total impurities: Undetectable		

Copper	≤5.0ppm	<5.0ppm	
Iron	≤2.0ppm	<2.0ppm	
Arsenic	≤3.0ppm	<3.0ppm	
Lead	≤2.0ppm	<2.0ppm	
Mercury	≤ 0.1ppm	<0.1ppm	
Cadmium	≤1.0ppm	<1.0ppm	
Heavy metals	≤10ppm	<10ppm	
Sulphated ash	≤0.1%	0.04%	
Residual solvents	Meets the requirements	Meets the requirements	
[Assay]	99.0%~100.5%	99.8%	
Conclusion: The product conforms with the above analysis standard			

2020, Date: April 20

Quality Department

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