

CERTIFICATE OF ANALYSIS

Product Name:	Ascorbic Acid	Quantity:	22000kg
Batch Number:	1180970028	Analysis Date:	4 th Sep. 2018
Production Date:	4 th Sep. 2018	Re-Test Date:	3 rd Sep. 2022
Reference Standard:	BP2017/USP40		
Item	Specification	Results	
Appearance	White to almost white crystalline powder or colourless crystals	Pass	
Identification	Positive Reaction	Pass	
Assay	99.0% ~ 100.5%	99.7%	
Melting Point	About 190°C	190°C	
Residue on Ignition	Not more than 0.1%	0.03%	
Specific Rotation	+20.5° ~ +21.5°	21.1°	
pH	2.1 ~ 2.6	2.3	
Heavy Metals	Not more than 10ppm	<10ppm	
Clarity of Solution	Clear	Pass	
Colour of Solution	Not more than BY ₇	< BY ₇	
Impurity E (Oxalic Acid)	Not more than 0.2%	<0.2%	
Related Substances	Impurity C ≤0.15% Impurity D ≤0.15% Unspecified Impurities ≤0.10% Total ≤0.2%	<0.15% <0.15% <0.10% <0.2%	
Copper	Not more than 5ppm	<5ppm	
Iron	Not more than 2ppm	<2ppm	
Residual solvents	Not more than 3000ppm	<3000ppm	
Arsenic	Not more than 0.0002%	<0.0002%	
Lead	Not more than 0.0002%	<0.0002%	
Mercury	Not more than 1ppm	<1ppm	
Total Plate Count	Not more than 1000cfu/g	<1000cfu/g	
Yeast and Moulds	Not more than 100cfu/g	<100cfu/g	

E.Coli	Absent in 1g	Absent in 1g
Salmonella	Absent in 25g	Absent in 25g
Staphylococcus Aureus	Absent in 25g	Absent in 25g
Conclusion:	The product with this batch number meets all requirements when tested according to the monograph of BP2017/USP40.	