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CERTIFICATE OF ANALYSIS

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Description: ASCORBIC ACID
 Batch No.: 2230121062
 Quantity: 22 MT
 Mfg. Date: Apr.2023
 Exp. Date: Mar.2026

This is to certify that the shipment identified below has been representatively Sampled and analyzed according to quality control program of the manufacture. The results of these analysis are listed as below.

Test Items	Specification	Test Result
Characteristics	White or almost White crystals Crystalline Powder	Pass
Identification	Positive Reaction	Positive
Melting Point	About 190°C-192°C	191.2°C
PH(with 5% water solution)	2.1~2.6	2.36
Clarity of Solution	Clear	Clear
Colour of Solution	≤ BY ₇	< BY ₇
Copper	≤5ppm	<5ppm
Heavy Metals	≤10ppm	<10ppm
Mercury	≤0.1mg/kg	<0.1mg/kg
Cadmium(Cd)	≤1 mg/kg	<1mg/kg
Lead	≤2 mg/kg	<2mg/kg
Arsenic	≤3ppm	<3ppm
Oxalic Acid	≤0.2%	<0.2%
Iron	≤2ppm	<2ppm
Impurity E	≤0.2%	<0.2%
Loss on Drying	≤0.4%	<0.4%
Sulphate Ash(Residue On Ignition)	≤0.1%	<0.1%
Specific Optical Rotation	+20.5 °~ +21.5 °	+20.91°
Residual Solvents	Pass	Pass
Assay	99.0% ~ 100.5%	99.56%
Conclusion:	The product complies with BP2019/USP42/FCC10/EP8.8/E300 standard.	

We hereby certify that the above is true and correct.

For and on behalf of
 THE TNN DEVELOPMENT LIMITED

Peter

Authorized Signature(S)