



**CERTIFICATE OF ANALYSIS**

Commodity: ASCORBIC ACID  
 Batch No.: 201604175  
 Quantity: 22000KGS  
 Date: MAY,18.2016  
 E Code: E300  
 Manufacture Date: APR.2016  
 Expiry Date: MAR.2019

Analysis Contents		Analysis Standard	Analysis Results
Characteristics		White or almost White crystals Crystalline Powder	Pass
Identification		Positive Reaction	Positive
Melting Point		About 190°C	190.6°C
PH(5% aqueous solution)		2.1-2.6	2.42
PH (2% aqueous solution)		2.4-2.8	2.66
Clarity Of Solution		Clear	Clear
Colour Of Solution		≤BY <sub>7</sub>	<BY <sub>7</sub>
Copper		≤5ppm	<5ppm
Heavy Metals		≤10ppm	<10ppm
Mercury		<0.1mg/kg	<0.1mg/kg
Lead		<2mg/kg	<2mg/kg
Arsenic		≤2ppm	<2ppm
Cadmium(Cd)		<1mg/kg	<1mg/kg
Related Substances	Impurity C	≤ 0.15%	<0.15%
	Impurity D	≤ 0.15%	<0.15%
	Unspecific Impurities	≤ 0.10%	<0.10%
	Total Impurities	≤ 0.20%	<0.20%
Oxalic Acid		≤0.2%	<0.2%
Iron		≤2ppm	<2ppm
Zinc		≤25ppm	<25ppm
Loss of Drying		≤0.4%	0.03%
Sulphate Ash(Residue On Ignition)		≤0.1%	<0.1%
Specific Optical Rotation		+20.5°-+21.5°	+21.11°
Organic Volatile Impurities		Pass	Pass
Assay		99.0%-100.5%	99.65%
Residual Solvents		Methanol: ≤3000ppm	<100ppm
Total plate count		≤1000cfu/g	<10cfu/g
Yeasts & molds		≤100cfu/g	<10cfu/g
Escherichia coli		Absence in 1g	Absence in 1g
Salmonella		Absence in 25g	Absence
Conclusion:		The Above-Mentioned Product Conforms To BP/USP/EP/FCC/E300	

