



山東魯維制藥有限公司

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## CERTIFICATE OF ANALYSIS

LWPC-3C1-20-08-018

Date: 5 AUG, 2020

Product Name	ASCORBIC ACID
Analysis Standard	BP/USP/EP/FCC/E300/EU 231 2012
Batch No.	3200132009
Quantity	22000kgs
Manufacture Date	AUG 2020
Expiry Date	JULY 2023
Shelf Life	3 Years
Net/Gross Weight	25.0kgs/26.3kgs

Analysis Contents	Analysis Standard	Analysis Results
Characteristics	White or almost White	Pass
Identification	Positive Reaction	Positive
Melting Point	189°C-193°C	190.7°C
PH(5% solution in water)	2.1-2.6	2.37
PH(2% solution in water)	2.4-2.8	2.56
Clarity Of Solution	Clear	Clear
Colour Of Solution	≤BY <sub>7</sub>	<BY <sub>7</sub>
Copper	≤5ppm	<5ppm
Heavy Metals(as Pb)	≤10ppm	<10ppm
Mercury	≤1mg/kg	<1mg/kg
Lead	<2mg/kg	<2mg/kg
Arsenic	≤3ppm	<3ppm
Cadmium(Cd)	<1mg/kg	<1mg/kg
Oxalic Acid	≤0.2%	<0.2%
Iron	≤2ppm	<2ppm
Loss of Drying	≤0.4%	<0.4%
Sulphate Ash(Residue On Ignition)	≤0.1%	<0.1%
Specific Optical Rotation	+20.5° - +21.5°	+21.06°
Organic Volatile Impurities	Pass	Pass
Assay	99.0%-100.5%	99.73%
Conclusion	The Above-Mentioned Product Conforms To BP/USP/EP/FCC/E300/EU 231 2012	

Approved by: Fengchunxiao

Rechecker: Jia jinfeng

Tester: Li ping

