

## SHANDONG LUWEI PHARMACEUTICAL CO.,LTD.

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www.kttchemical.com

<b>CERTIFICATE OF ANALYSIS</b>			
Date of certificate: NOV.25,2019			
Product Name	ASCORBIC ACID	Batch No.	190142168
Analysis Standard	<b>BP2015/USP38/FCC9/EP8.5/E300</b>	Quantity	18000KGS
Manufacture Date	NOV.2019	Expiry Date	NOV.2022

Analysis Contents	Analysis Standard	Analysis Results
Characteristics	White or almost White crystals Crystalline Powder	Pass
Identification	Positive Reaction	Positive
Melting Point	About 190°C	190.4°C
PH(with 2% water solution)	2.4-2.8	2.50
PH(with 5% water solution)	2.1-2.6	2.42
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	≤2ppm	<2ppm
Arsenic	≤3ppm	<3ppm
Oxalic Acid	≤0.2%	<0.2%
Iron	≤2ppm	<2ppm
Impurity E	≤0.2%	<0.2%
Loss of Drying	≤0.4%	<0.4%
Sulphate Ash(Residue On Ignition)	≤0.1%	<0.1%
Specific Optical Rotation	+20.5° - +21.5°	+21.10°
Residual Solvents	Pass	Pass
Assay	99.0%-100.5%	99.74%
Conclusion	<b>The Above-Mentioned Product Conforms To BP2015/USP38/FCC9/EP8.5/E300</b>	

Approved by: LiChenghui

Rechecker: ZhangRanran

Tester: WangJing