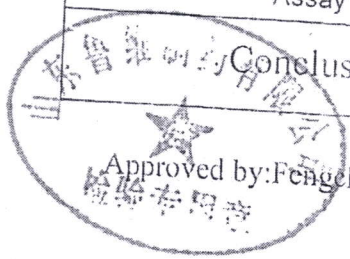


HL Vitamin
CERTIFICATE OF ANALYSIS

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Product Name	Date: 12 FEB, 2020	
Analysis Standard	ASCORBIC ACID	
Batch No.	BP/USP/EP/FCC/E300/EU 231 2012	
Quantity	190143065	
Manufacture Date	22000kgs	
Expiry Date	DEC 2019	
Shelf Life	NOV 2022	
Net/Gross Weight	3 Years	
	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	190.3°C
PH(5% solution in water)	2.1-2.6	2.46
PH(2% solution in water)	2.4-2.8	2.56
Clarity Of Solution	Clear	Clear
Colour Of Solution	≤BY ₇	<BY ₇
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°	+21.04°
Organic Volatile Impurities	Pass	Pass
Assay	99.0%-100.5%	99.80%
Conclusion	The Above-Mentioned Product Conforms To BP/USP/EP/FCC/E300/EU 231 2012	



Approved by: Fengchuanxiao

Rechecker: Jiajinfeng

Tester: Liping