



B I O T E C H

PANGOO BIOTECH HEBEI CO.,LTD.
415,TIANCHENG BUILDING,BEIJING ROAD,
CANGZHOU,HEBEI,CHINA.06001
info@pangoogroup.com
www.pangoogroup.com www.pangoo.biz

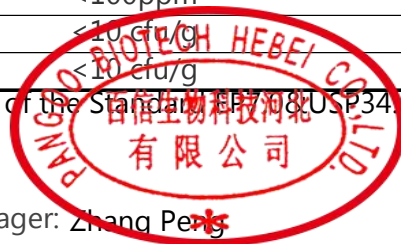
Certificate of Analysis

Date: 2019/4/22

Product Name: Vitamin C Ascorbic acid
CAS: 50-81-7
Batch No.: 4357450-81-7
MFG Date: 2019-04-19
EXP Date: 2021-04-18

Items	Standard	Result
Characteristics	White Crystalline Powder	Conform
Identification	Positive Reaction	Positive
Melting Point	About 190°C	191.1°C
PH	2.1-2.6	2.46
Copper	≤5ppm	5ppm
Heavy Metals	≤10ppm	<10ppm
Mercury	<0.1mg/kg	<0.1mg/kg
Lead	<2mg/kg	<2mg/kg
Arsenic	≤3ppm	<3ppm
Oxalic Acid	≤0.2%	<0.2%
Iron	≤2ppm	<2ppm
Loss of Drying	≤0.4%	0.03%
Sulphate Ash(Residue On Ignition)	≤0.1%	<0.1%
Specific Optical Rotation	+20.5°-+21.5°	+21.15°
Assay	99.0%-100.5%	99.86%
Residual Solvents	Methanol:≤3000 ppm	<100ppm
Total plate count	≤1000 cfu/g	<100 cfu/g
Yeasts& molds	≤100 cfu/g	<10 cfu/g

Conclusion: It is qualified according to the standard of the Standard of the United States Pharmacopoeia (USP34).



Inspector: Zhang Jiahui

Technical manager: Zhang Peng