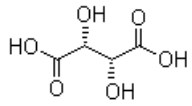


**CERTIFICATE OF ANALYSIS**

NO: DYC091801046

Product Name	L(+)-Tartaric acid
CAS Number	87-69-4
Molecular Structure	
Molecular Formula	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub>
Batch Quantity	5000 KGS
Batch Number	20171018
Mfg. & Exp. Date	2017-10-18 & 2019-10-17
Test Date	2017-10-16

Items	Standard	Result
Appearance	White crystalline powder	Conform
Transparency & colority	Passes test	Conform
Solubility	Passes test	Conform
Specific rotation	+12.0~+13.0°	+12.25°
Loss on drying	≤0.5%	0.16%
Residue on ignition	≤0.1%	0.03%
Calcium	≤0.02%	<0.02%
Chlorides	≤0.01%	<0.01%
Heavy metals(as Pb)	≤0.001%	<0.001%
Arsenic(as As)	≤0.0003%	<0.0003%
Sulfate	≤0.015%	<0.015%
Oxalate	≤0.035%	<0.035%
Assay	99.7~100.5%(calculated as C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> )	99.88%
Conclusion	This product conforms to USP34 standard.	

QUALITY CONTROL:

Hangzhou Dingyan Chem Co., Ltd.  
Quality Control Lucy Tang

CHECK: 姚仙娟

INSPECTOR: 刘清风