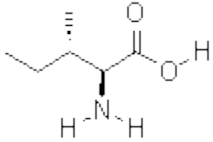


**HANGZHOU DINGYAN CHEM CO., LTD**

Tel:86-571-87157530 Fax:86-571-87156470

Email:sales@dingyanchem.com

CERTIFICATE OF ANALYSIS**NO: DYC051508203**

Product name	L-Isoleucine
CAS Number	73-32-5;131598-62-4
Molecule Structure	
Molecule Formula	C₆H₁₃NO₂
Batch No.	20150418
Manuf.&Exp. Date	2015-04-18
Testing Date:	2015-04-18

Tests	Limits	Test results
Description	White crystals or crystalline powder	conforms
Identification (IR)	concordant with the reference spectrum	conforms
assay	98.5~101.5%	99.2%
PH	5.5~7.0	6.4
Specific rotation $[\alpha]_D^{25}$	+38.9° ~ +41.8°	+41.0°
Chloride(Cl)	≤0.05%	<0.05%
Sulfate(SO ₄)	≤0.03%	<0.03%

ADD:RM 1118, NO.I BUILDING, BAIYUN TOWER, JIANGGAN AREA, HANGZHOU CITY, CHINA

Iron(Fe)	≤30ppm	<30ppm
Heavy metals(Pb)	≤15ppm	<15ppm
Arsenic(As)	≤1.5ppm	<1.5ppm
Loss on drying	≤0.30%	0.15%
Residue on ignition	≤0.30%	0.05%
Organic volatile impurities	meets the requirements	conforms

Conclusion: Passed test according to the Standard of USP24.

QUALITY CONTROL: Hangzhou Dingyan Chem Co., Ltd.
 Quality Control Buddy...chan
 CHECK: 姚仙娟
 INSPECTOR: 刘清风