


CERTIFICATE OF ANALYSIS

Product Name:	L-Leucine Ethyl Ester HCl	Report Date:	Aug 04, 2017
Formula:	C ₈ H ₁₈ CLNO ₂	Batch No.:	170802
CAS No.:	2743-40-0	Manu. Date:	Aug 02, 2017
Inspection Standard:	In-house Standard	Exp. Date:	Aug 01, 2019

RESULTS OF ANALYSIS

Test Items	Specifications	Results
Appearance	White crystals or crystalline powder	Conforms
Specific rotation $[\alpha]_D^{20}$	+17.0 to +19.0°	+17.5°
State of Solution (Transmittance)	Clear and Colorless Not Less Than 98.0%	98.5%
Chloride(Cl)	17.75% to 18.48%	18.02%
Sulfate(SO ₄)	Not more than 0.030%	<0.03%
Iron(Fe)	Not more than 10ppm	<10ppm
Heavy Metals(Pb)	Not more than 10ppm	<10ppm
Arsenic	Not more than 2ppm	<2ppm
Loss on drying	Not more than 0.50%	0.12%
Residue on ignition(sulfated)	Not more than 0.10%	0.05%
Assay	98.5-101.0%	99.1%
Conclusion:	Conforms to the specifications of In-house Standard.	

Analyst: **侯健之**Auditor: **辽薛兰**Chief of QC: **于铁梅**