



## CERTIFICATE OF ANALYSIS

### L-LEUCINE

ITEM	SPECIFICATION	RESULT
1. Specific rotation:	+14.9 to +17.3	15.1
2. PH:	5.5-7.0	6.6
3. Loss on drying:	Not more than 0.2%	0.05%
4. Residue on ignition:	Not more than 0.4%	0.08%
5. Chloride (CL):	Not more than 0.05%	NMT 0.02%
6. Sulfate:	Not more than 0.03%	NMT 0.03%
7. Iron:	Not more than 30ppm	NMT 5ppm
8. Heavy metals	Not more than 15ppm	NMT 10ppm
9. Organic volatile impurities:	Meet the requirements	Conform
10. Assay:	99.0 to 101.5%	99.5%
11. Particle size:	NLT 95% pass through 80 mesh	Conform