



Qingdao Good Prosper Imp. & Exp. Co., Ltd.
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Certificate of Analysis

For L-Threonine

Chemical formula: $C_4H_9NO_3$

Percent Nitrogen: 11.50%

Description: Yellowish-white, crystal powder

Purity (on a dry matter basis): 98.5% Min

Bulk density kg/L: 0.5-0.6

Manufacture Date: 23/12/2015

Date of Expiry: 22/12/2018

ITEM	STANDARD	TEST RESULT
Purity (on a dry matter basis)	$\geq 98.5\%$	99.46%
Residue on ignition	$\leq 0.4\%$	0.12%
Loss on drying	$\leq 0.5\%$	0.10%
Specific rotation $(\alpha)_D^{20}_c$	-26.7° — -29°	-27.96°
PH value	5.0-6.5	5.55
Heavy metals (as Pb)	$\leq 15\text{ppm}$	Conform
Arsenic (As)	$\leq 15\text{ppm}$	Conform

青島于鼎盛進出口有限公司
QINGDAO GOOD PROSPER IMP. & EXP. CO., LTD.

李臣忠