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## **Certificate of Analysis**

Product Name	L-Tryptophan		
Glentham Code	GM0674		
AS Number	73-22-3		
INECS	200-795-6		
MDL Number	MFCD00064340		2 ~
	310281481		$\sim$
atch Number	982EZF	$\neg$	'E SCIEN
lecular Weight	204.23	H	N
olecular Formula	C <sub>11</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>		
torage Temp.	+20°C		
Property		Specification	Batch 982EZF
nysical Description		White to off-white powder	White powder
entification (IR)		To conform to standard	Conforms
H (1% in water)		5.5 - 7.0	5.96
ecific Optical Rotation ([o	(]25/D)	−29.4 - −32.8 ° (10mg/ml, water)	-30.9°
oss on Drying		≤ 0.3% (105°C, 3h)	0.05%
esidue on Ignition		≤ 0.1%	0.05%
ead (Pb)		≤ 3ppm	Conforms
senic (As)		≤ 1ppm	Conforms
admium (Cd)		≤ 1ppm	Conforms
ercury (Hg)		≤ 0.1ppm	Conforms
hloride		≤ 0.05%	≤ 0.02%
Ilphate		≤ 0.03%	≤ 0.03%
n (Fe)		≤ 30ppm	≤ 30ppm
avy Metals		≤ 15ppm	Conforms
rganic Impurities		≤ 0.01% of total impurites prior to peak and 0.03% of total impurities after peak	I ≤ Conforms
elated Compound A		To pass test	Conforms
ssay		98.5 - 101.5 % (dried basis)	99.23%
Pharmacopoeia Specificatio	on(s)	USP	Conforms
ecification Version	v1.2		
	2022-02-23		

Manufacture Date	2022-02-23
Re-Test Date	2030-07-05

Glentham Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glentham.com or contact us using the details above for the current version of this document.

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