

CERTIFICATE OF ANALYSIS

L-GLUTAMINE FCC

LOT NUMBER :04010510

CAS Number :56-85-9

<u>TEST</u>	<u>SPECIFICATION</u>	<u>RESULT</u>
Description:	White, odorless crystals or crystalline powder having a slightly sweet taste.	Conforms
IDENTIFICATION:	To Pass Test	Passes test
SPECIFIC ROTATION (a) 20° D	+6.3° to +7.3° after drying	+6.57°
LOSS ON DRYING:	0.2% max	0.120%
RESIDUE ON IGNITION:	0.1% max	0.020%
HEAVY METALS (AS Pb):	10 ppm max	Not more than 10 ppm
ASSAY:	99.0% to 101.5% after drying	99.23%
MICRO SPECIFICATIONS:		
TPC (cfu/g):	<50 cfu/g	Negative
Yeast and Mold:	<20 cfu/g	Negative
Staphylococcus:	Negative	Conforms
Salmonella:	Negative	Conforms
E. Coli:	Negative	Conforms
pH:	4.0 - 6.0	5.35

PO# 2446