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## Certificate of Analysis

<b>Product</b>	<b>12381 - L-Glutamine extrapure CHR, 99% - [56-85-9]</b>
<b>Batch No</b>	<b>9604086</b>
<b>Analysis Date</b>	13-Aug-2022
<b>Date of Manufacture</b>	August 2022
<b>Expiry Date/Re-Test Date</b>	August 2027
<b>Molecular Formula</b>	C5H10N2O3
<b>Molecular Weight</b>	146.15

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution 2N HCl	Clear	Clear
Solubility (Colour) 10% solution 2N HCl	Colourless	Colourless
Assay	min. 99%	99.1%
Specific rotation [ $\alpha$ ]	+31.5° to +32.5° (C=2, N HCl)	+31.6°
Loss on drying	max. 0.5%	0.2%
Sulphated Ash	max. 0.1%	0.08%
Chloride (Cl)	max. 0.01%	Passes
Sulphate (SO4)	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH4)	max. 0.01%	Passes
Homogeneity by TLC	Passes test	Passes

FRM/82/11/4/12381 Rev No. 1 Date 01/11/2015

Prepared by Nilesh

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Talaja – 410 208, Maharashtra, India

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