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Certificate of Analysis

Product	17632 - D-Glutamine extrapure, 99% - [5959-95-5]
Batch No	1445151
Analysis Date	21-Nov-2023
Date of Manufacture	November 2023
Expiry Date/Re-Test Date	November 2028
Molecular Formula	C5H10N2O3
Molecular Weight	146.2

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%	99.7%
Specific rotation [α]	- 29° to - 31° (C=5 , 5N HCl)	- 30.2°
Loss on drying	max. 0.3%	0.2%
Sulphated Ash	max. 0.1%	0.03%
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH ₄)	max.0.01%	Passes
Homogeneity by TLC	Passes test	Passes

FRM/82/11/4/17632 Rev No. 1 Date 01/11/2015

Prepared by **Dhanashree**

In compliance with the standard specifications of SRL

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

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1/1

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