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## Certificate of Analysis

<b>Product</b>	<b>68793 - L-Phenylalanine for cell culture, 99%, Endotoxin (BET) 1EU/mg - [63-91-2]</b>
<b>Batch No</b>	<b>1830054</b>
<b>Analysis Date</b>	31-Oct-2022
<b>Date of Manufacture</b>	October 2022
<b>Expiry Date/Re-Test Date</b>	October 2027
<b>Molecular Formula</b>	C <sub>9</sub> H <sub>11</sub> O <sub>2</sub> N
<b>Molecular Weight</b>	165.19

Test Parameters	Standards	Actual Results
Appearance (Colour)	White to off-white	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution 2N HCl	Clear	Clear
Assay	min. 99%	99.2%
Specific rotation [ $\alpha$ ]	- 35° to - 33° (C= 2 , water)	-33.169°
Loss on drying	max. 0.5%	0.1%
Sulphated Ash	max. 0.1%	0.02%
Chloride (Cl)	max. 0.01%	Passes
Sulphate (SO <sub>4</sub> )	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH <sub>4</sub> )	max. 0.01%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Cell Culture	Passes	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	<1 EU/mg	Passes

FRM/82/11/4/68793 Rev No. 1 Date 27/03/2022

Prepared by Komal

In compliance with the standard specifications of SRL

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

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