

CERTIFICATE OF ANALYSIS No.0208/2023

L-4-BORONOPHENYLALANINE

4-(Borono-10B)-L-Phenylalanine

Molecular weight: 208.2 g/mol

CAS No.: [80994-59-8]

Molecular formula: C₉H₁₂BNO₄

Batch No: 00705118

Test	Specification	Result
Appearance	white substance - slightly yellow substance	white substance
Identification (IR)	Conforms	Conforms
Identification (NMR)	Conforms	Conforms
Clarity of 5% (w/V) Solution in 1 M HCl	clear	clear
Colour of 5% (w/V) Solution in 1 M HCl	Y6; Y7; < Y7	< Y7
Loss on Drying (105°C)	NMT 2.0 %	0.1 %
Iron	NMT 0.003 %	< 0.003 %
Chlorides	NMT 1.0 %	0.2 %
Heavy Metals	NMT 0.001 %	< 0.001 %
Assay (HPLC)	98.0 ÷ 102.0 %	100.7 %
L-Phenylalanine (HPLC)	NMT 0.50 % area	0.05 % Area % area
Any Individual Impurity (HPLC)	NMT 0.05 % area	< 0.03 % Area % area
Sum of Impurities (HPLC)	NMT 1.0 % area	0.05 % Area % area
Ethanol (GC)	NMT 5000 ppm	< 50 ppm
2-Propanol (GC)	NMT 5000 ppm	< 50 ppm
Tetrahydrofuran (GC)	NMT 720 ppm	< 5 ppm
Toluene (GC)	NMT 890 ppm	< 5 ppm
Bacterial Endotoxins (LAL Test)	NMT 0.05 EU/mg	< 0.05 EU/mg
Total Aerobic Microbial Count (TAMC) in 1 g	NMT 1000 cfu/g	< 10 CFU/g cfu/g
Total Combined Yeast and Mould Count (TYMC) in 1 g	NMT 100 cfu/g	< 10 CFU/g cfu/g
Escherichia coli in 1 g	absent	absent

Conforms to specification: L05

Version: 09

Manufacturing date: 10.03.2023

Retest date: 10.03.2027