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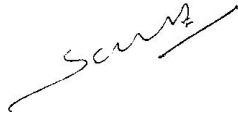
Manufacturing site:

825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalog Number	04092
Product Name	H-Phe(2-Cl)-OH 2-Chloro-L-phenylalanine
Lot Number	PA85-13
CAS Registry Number	103616-89-3
Molecular Formula	C ₉ H ₁₀ ClNO ₂
Molecular Weight	199.634
Appearance	Off white powder
¹H NMR	Conforms to structure
HPLC	98.89% Area
Chiral HPLC	99.0%
Melting Range	196-203°C
Notes	
1. NMR Solvent used :	D ₂ O
2. HPLC conditions :	
Mobile Phase:	Gradient 14.7mM NaH ₂ PO ₄ pH 2.9/acetonitrile
Column :	Hypersil BDS C18 250mm x 4.6mm 5µm
Detection :	UV 210nm
Sample solvent:	1:1 water/acetonitrile
3. Chiral HPLC conditions	
Mobile Phase:	80% MeOH in buffer (0.5% TEA(aq) pH 5.1)
Column :	Chirobiotic T column 250mm x 4.6mm 5µm
Detection :	UV 220nm
Sample solvent:	1:1 water/acetonitrile
Storage	Store at -0°C.
Remarks	See material safety data sheets for additional information. For laboratory use only.

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

A handwritten signature in black ink, appearing to read 'Sashi Kumar', written in a cursive style with a long horizontal stroke extending to the right.

Sashi Kumar
Quality Control Manager