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### CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

**Product Name: Melphalan D-Isomer**

#### Identification:

Chemical Name: 4-[Bis(2-chloroethyl)amino]-D-phenylalanine hydrochloride

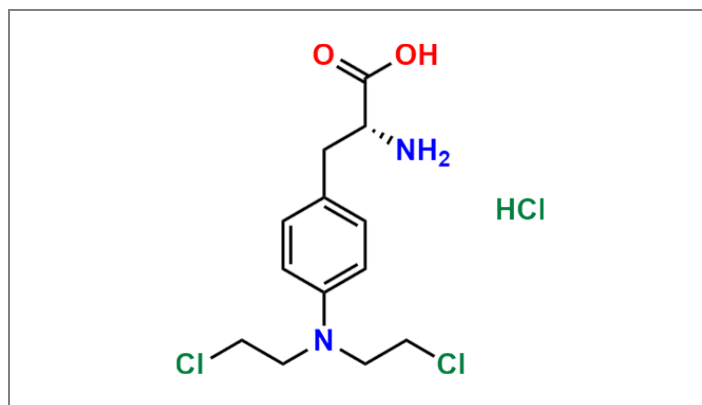
Synonyms : D-Phenylalanine mustard hydrochloride

CAS Number : 4213-32-5

CAT Number : CP-M9014

Molecular Formula : C<sub>13</sub>H<sub>18</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>2</sub> : HCl

Molecular Weight : 305.20 : 36.5



#### Analytical Information:

Sr. No.	Test	Result
1)	Description	Solid
2)	Solubility	Soluble in Methanol/DMSO
3)	MASS By LCMS	Confirm to structure
4)	Purity By HPLC	>95%
5)	H1NMR	Confirm to structure



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.