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### CERTIFICATE OF ANALYSIS

Analysis Date:

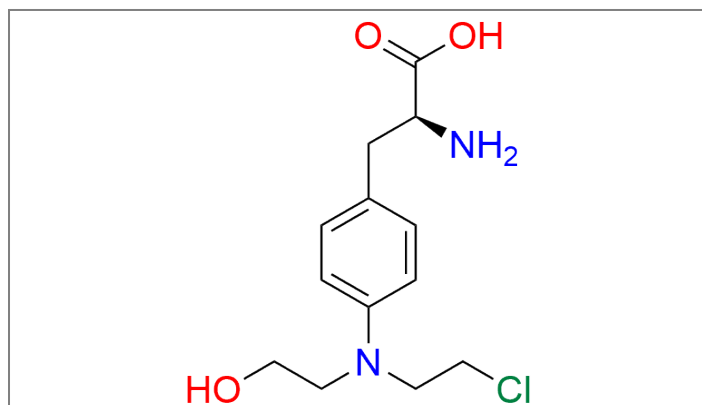
Re-test Date:

**Product Name: Melphalan EP Impurity D**

#### Identification:

Chemical Name: 4-[(2-chloroethyl)(2-hydroxyethyl)amino]-L-phenylalanine

Synonyms : NA  
CAS Number : 61733-01-5  
CAT Number : CP-M9004  
Molecular Formula : C<sub>13</sub>H<sub>19</sub>ClN<sub>2</sub>O<sub>3</sub>  
Molecular Weight : 286.76



#### 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.