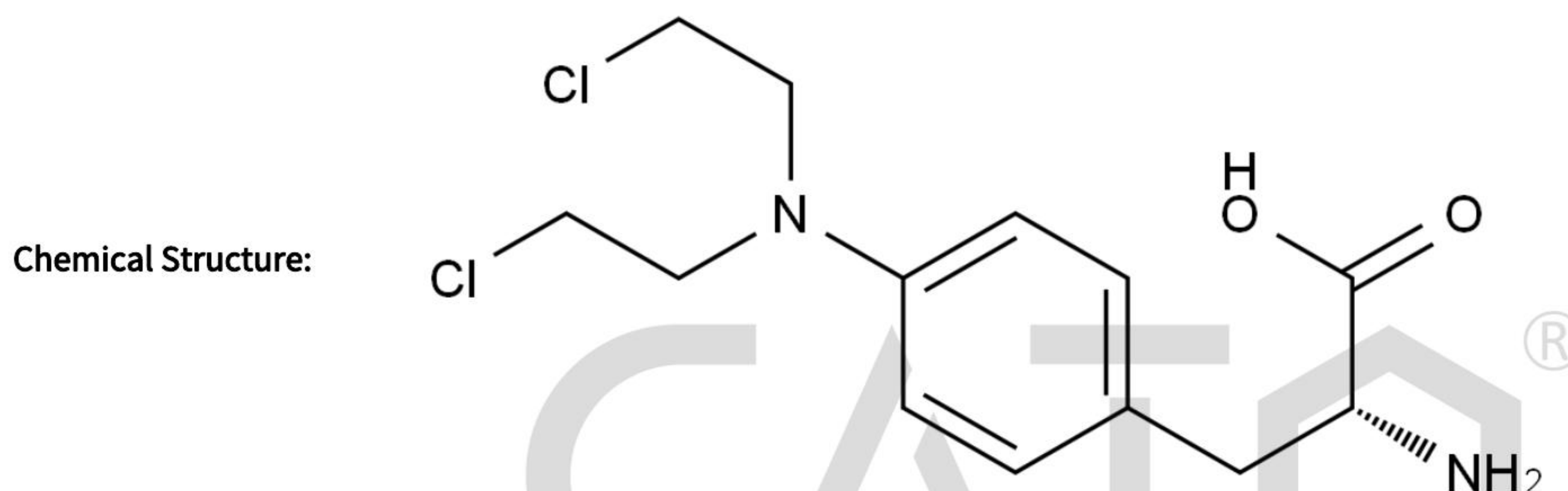


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                                               |                   |                                           |
|--------------------|-------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | D-Melphalan                                                                   | Catalogue Number: | C4X-198813                                |
| Synonyms:          | N/A                                                                           | Lot Number:       | 1014-RF-0068                              |
| CAS Number:        | 13045-94-8                                                                    | Expiry Date:      | Oct 14, 2027                              |
| Molecular Formula: | C <sub>13</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub> | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 305.20                                                                        |                   |                                           |



| Test Items     | Method            | Results            |
|----------------|-------------------|--------------------|
| Appearance     | Visual inspection | Light Yellow Solid |
| Identification | LCMS&HNMR         | Confirmed          |
| Purity         | HPLC              | 96.267%            |
| Loss On Drying | TGA               | 1.5228%            |
| Assay          |                   | 94.8%              |

## Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Loss On Drying) \* Purity HPLC (%) / 100%

Loss On Drying is considered as absolute effect, HPLC purity is considered as relative effect.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Koi*

Approved by General Manager:

*David*

Date: Oct 15, 2024

Date: Oct 15, 2024

Date: Oct 15, 2024

