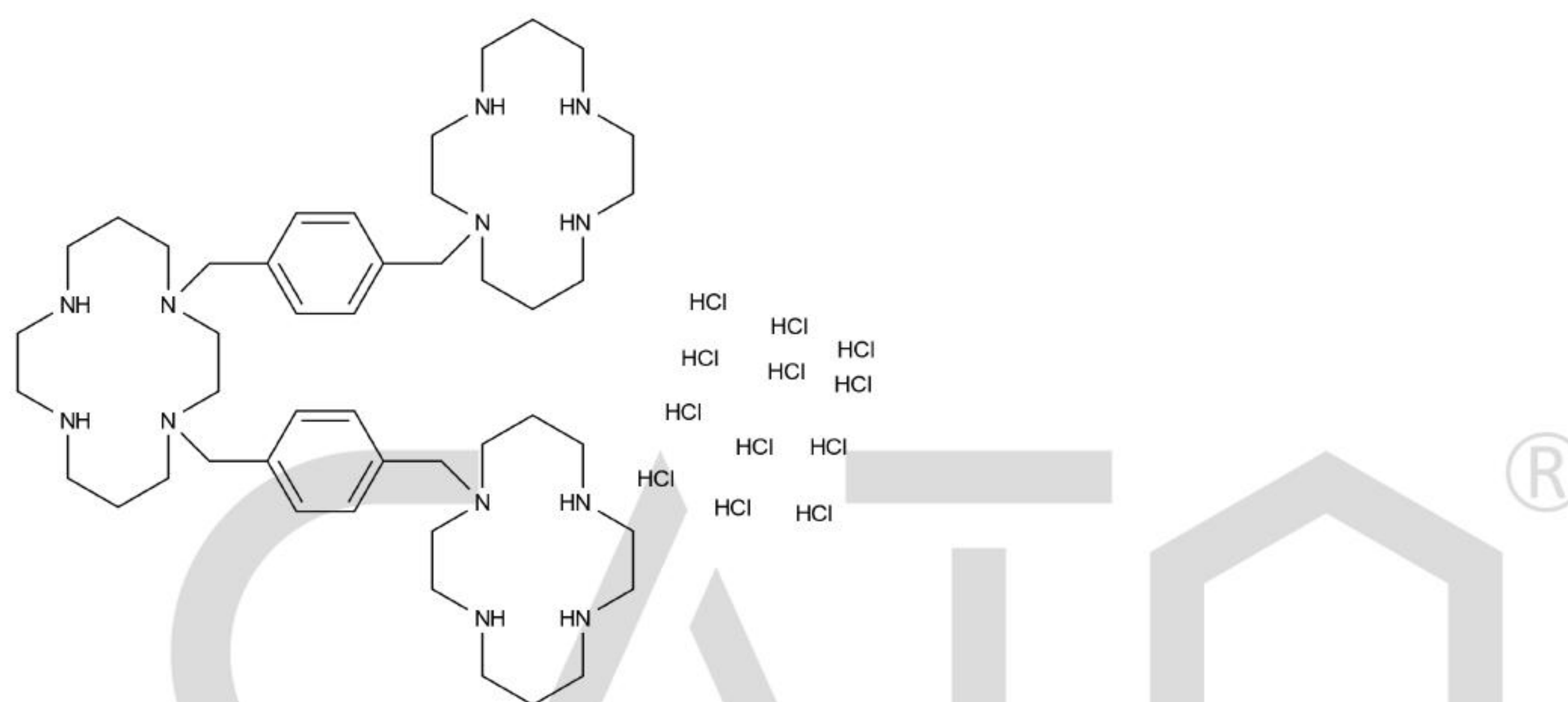


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                        |                          |                                           |
|---------------------------|--------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Plerixafor Impurity 43 (12HCl)                         | <b>Catalogue Number:</b> | C4X-113343                                |
| <b>Synonyms:</b>          | N/A                                                    | <b>Lot Number:</b>       | 0904-RG-0044                              |
| <b>CAS Number:</b>        | N/A                                                    | <b>Expiry Date:</b>      | Aug 26, 2029                              |
| <b>Molecular Formula:</b> | C <sub>46</sub> H <sub>84</sub> N <sub>12</sub> 12*HCl | <b>Storage:</b>          | 2°C ~ 8°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 805.24 12*36.46                                        |                          |                                           |

### Chemical Structure:



| Test Items        | Method            | Results             |
|-------------------|-------------------|---------------------|
| Appearance        | Visual inspection | White Solid         |
| Identification    | LCMS&UV&HNMR      | Confirmed           |
| Purity            | HPLC              | 97.301%             |
| Water Content     | Karl Fischer      | 3.06%               |
| Residual Solvents | NMR               | Not detected in NMR |
| Assay             |                   | 94.3%               |

### Comment:

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

Assay (%) = (100% - Water Content - Residual Solvents) \* Purity HPLC (%) / 100%

Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.

### Signature:

Prepared by:

*Lily*

Reviewed by:

*Hinlam*

Approved by General Manager:

*David*

Date: Sep 04, 2025

Date: Sep 04, 2025

Date: Sep 04, 2025

