

# Certificate of Analysis

## Reference Material & Standard

|                    |                                       |                   |                                           |
|--------------------|---------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Alverine Impurity 10 HCl              | Catalogue Number: | C4X-153910                                |
| Synonyms:          | N/A                                   | Lot Number:       | 0621-RF-0059                              |
| CAS Number:        | 27640-12-6(free base)                 | Expiry Date:      | Jun 24, 2027                              |
| Molecular Formula: | C <sub>13</sub> H <sub>21</sub> N HCl | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 191.31 36.46                          |                   |                                           |

HCl

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 99.425%     |
| Loss On Drying | TGA               | 0.0772%     |
| Assay          |                   | 99.3%       |

## 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:

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Date: Jun 25, 2024

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