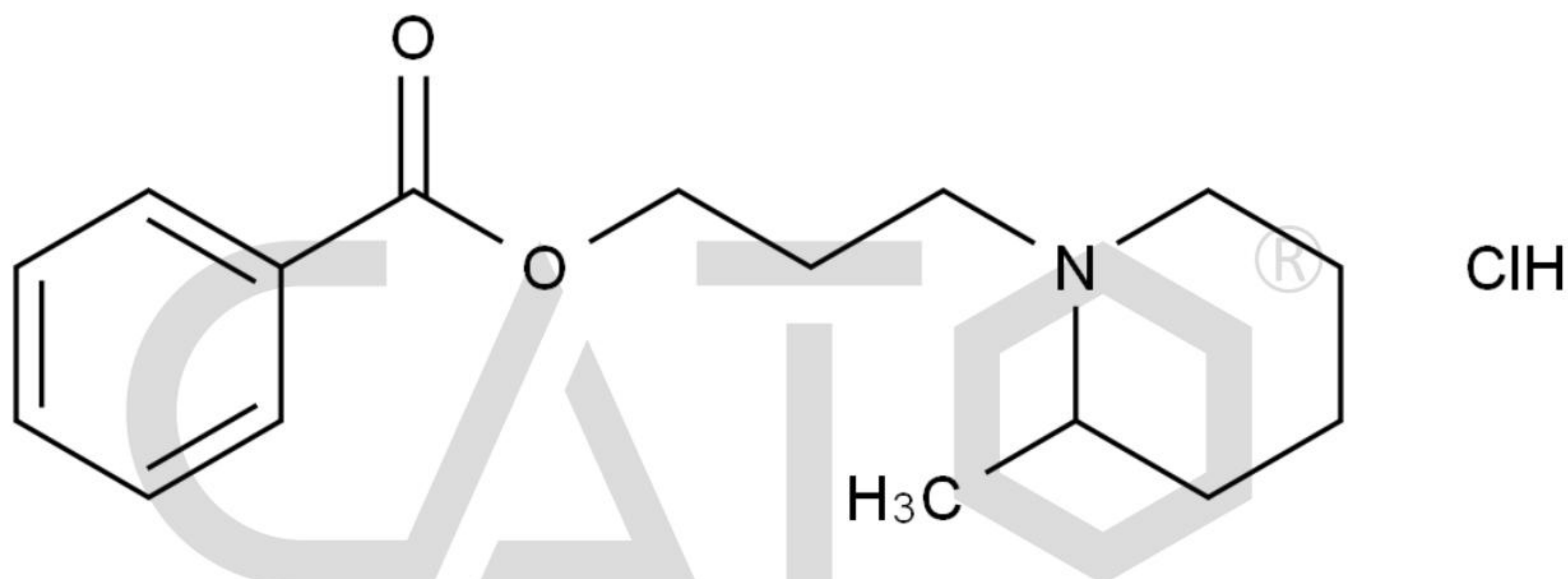


# Certificate of Analysis

## Reference Material & Standard

|                           |                                                     |                            |                                                                                      |
|---------------------------|-----------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------|
| <b>Product Name:</b>      | Piperocaine Hydrochloride                           | <b>Catalogue Number:</b>   | CCAD302854                                                                           |
| <b>Synonyms:</b>          | N/A                                                 | <b>Lot Number:</b>         | 0119-RH-0117                                                                         |
| <b>CAS Number:</b>        | 24561-10-2                                          | <b>Expiry Date:</b>        | Jan 18, 2030                                                                         |
| <b>Molecular Formula:</b> | C <sub>16</sub> H <sub>23</sub> NO <sub>2</sub> HCl | <b>Storage:</b>            | 2°C ~ 8°C Protected from light and Sealed                                            |
| <b>Molecular Weight:</b>  | 261.36 36.46                                        | <b>Shipping Condition:</b> | Shipping at Room Temperature                                                         |
| <b>Solubility:</b>        | Acetonitrile                                        | <b>Warning:</b>            |  |

Chemical Structure:



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 99.7%       |
| Assay          | qNMR              | 94.4%       |
| Uncertainty    |                   | ±1.1%       |

## Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

*Nice*

Reviewed by:

*Hinlam*

Approved by General Manager:

*David*

Date: Jan 19, 2026

Date: Jan 19, 2026

Date: Jan 19, 2026



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