# Certificate of Analysis

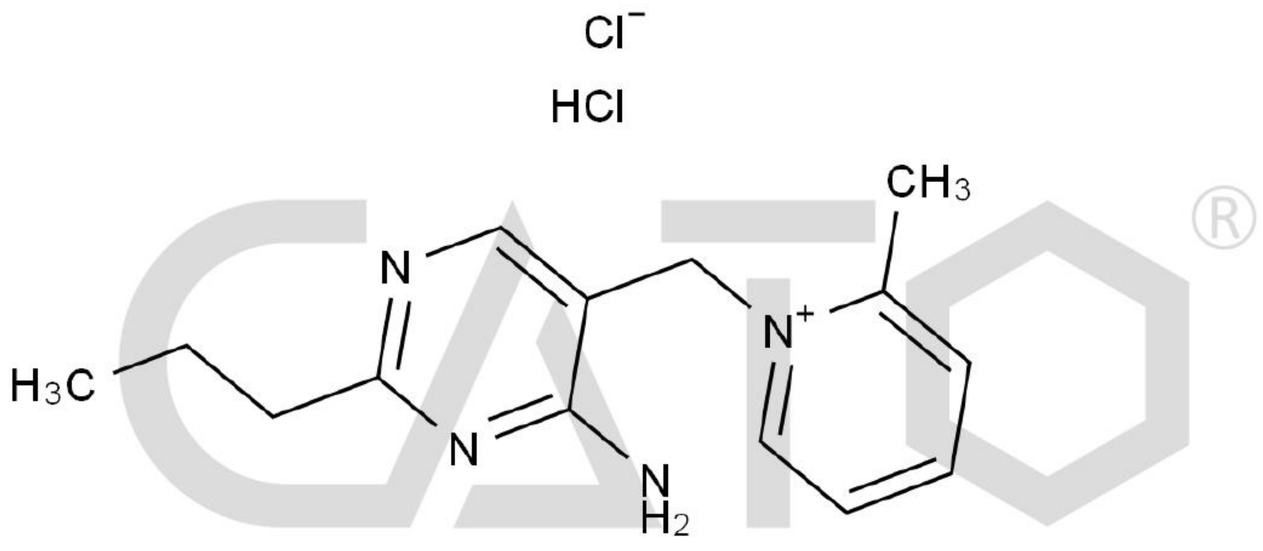
## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Amprolium Hydrochloride | **Catalogue Number:** | CCAD300068 |
| **Synonyms:** | N/A | **Lot Number:** | 1111-RA-0001 |
| **CAS Number:** | 137-88-2 | **Expiry Date:** | Mar 16, 2029 |
| **Molecular Formula:** | $C_{14}H_{19}N_4$ HCl Cl | **Storage:** | Room Temp Protected from light and Sealed |
| **Molecular Weight:** | 243.33 36.46 35.45 | **Shipping Condition:** | Shipping at Room Temperature |

**Warning:**



**Chemical Structure:**




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| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | White to Off-White Solid |
| **Identification** | LCMS&HNMR | Confirmed |
| **Purity** | HPLC | 98.8128% |
| **Loss on Drying** | TGA | 0.1771% |
| **Assay** | | 98.6% |
| **Uncertainty** | | ±2.0% |

## Comment:

*1. The calculation of the mass balance 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.*
*2. 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: Alice Date: Mar 17, 2025

Reviewed by: Hinlam Date: Mar 17, 2025

Approved by General Manager: David Date: Mar 17, 2025

CATO Research Chemicals Inc.