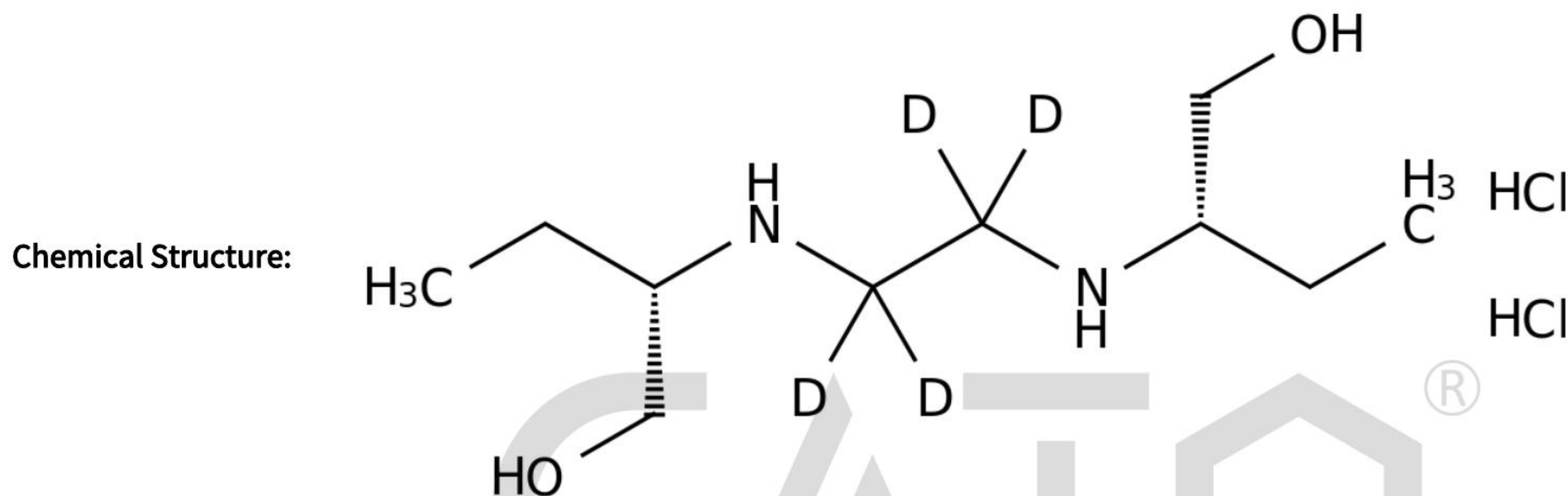


# Certificate of Analysis

## Reference Material

|                    |                                                                                    |                   |                                           |
|--------------------|------------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| Product Name:      | Ethambutol-d4 Dihydrochloride                                                      | Catalogue Number: | CCHM703654                                |
| Chemical Name:     | N/A                                                                                | Lot Number:       | 0630-RD-0057                              |
| CAS Number:        | 1129526-19-7                                                                       | Expiry Date:      | Mar 18, 2026                              |
| Molecular Formula: | C <sub>10</sub> H <sub>20</sub> D <sub>4</sub> N <sub>2</sub> O <sub>2</sub> 2*HCl | Storage:          | 2°C ~ 8°C Protected from light and Sealed |
| Molecular Weight:  | 208.33 2*36.46                                                                     |                   |                                           |



| Test Items      | Method            | Results     |
|-----------------|-------------------|-------------|
| Appearance      | Visual inspection | White Solid |
| Identification  | LCMS&HNMR         | Confirmed   |
| Chemical Purity | NMR               | 98.0%       |
| Isotopic Purity |                   | 99.1%       |
| Uncertainty     |                   | ±2.0%       |

## 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:

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Reviewed by:

*Cady*

Aporoved by General manager:

*David*

Date: Mar 19, 2019

Date: Jul 08, 2022

Date: Jul 08, 2022

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