

# Certificate of Analysis

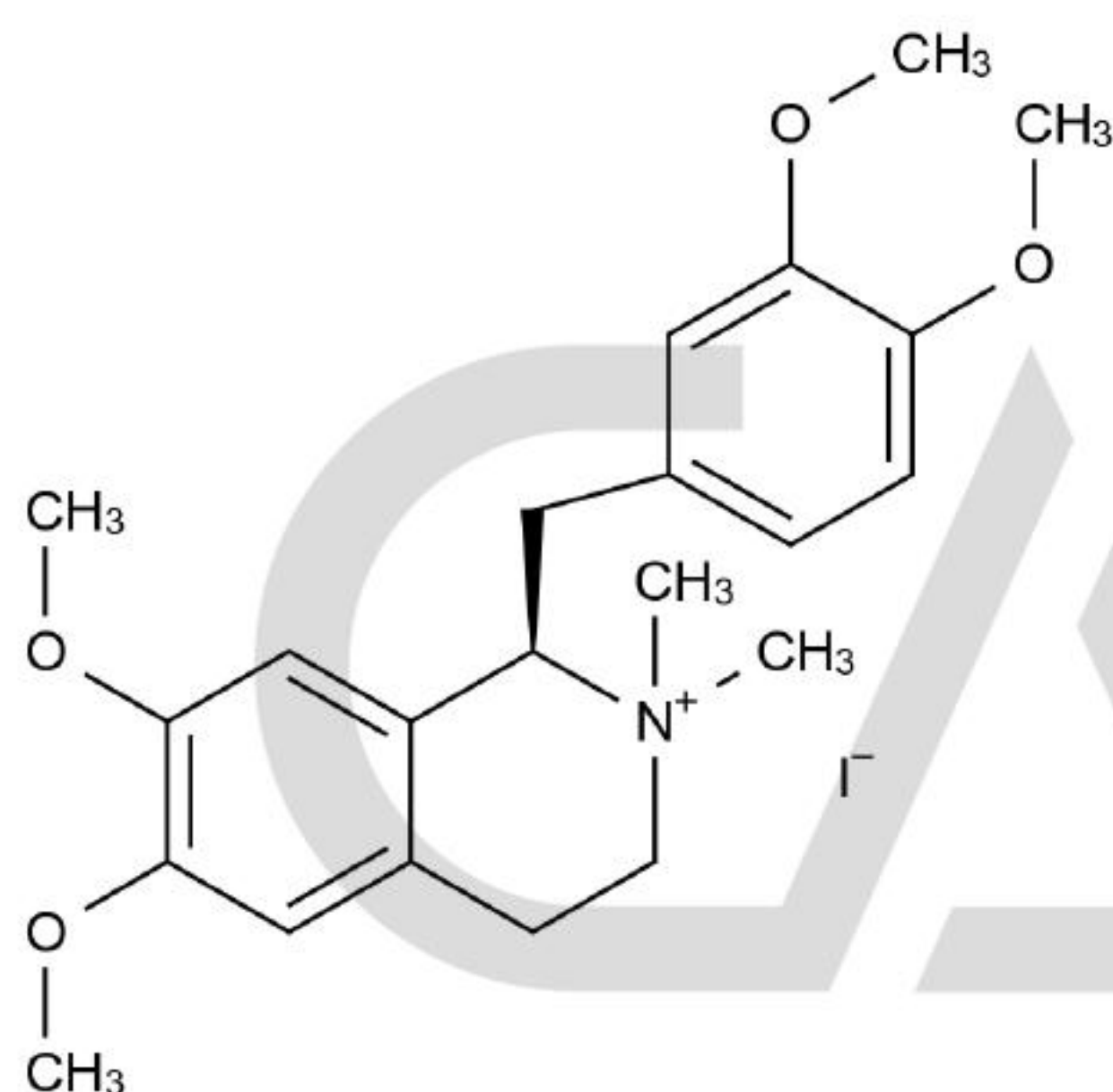
## Reference Material & Standard

|                           |                                                   |                          |                                           |
|---------------------------|---------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Cisatracurium EP Impurity B(Iodide Salt)          | <b>Catalogue Number:</b> | C4X-185080                                |
| <b>Synonyms:</b>          | N/A                                               | <b>Lot Number:</b>       | 0816-RF-0064                              |
| <b>CAS Number:</b>        | 41431-32-7                                        | <b>Expiry Date:</b>      | Sep 14, 2026                              |
| <b>Molecular Formula:</b> | C <sub>22</sub> H <sub>30</sub> NO <sub>4</sub> I | <b>Storage:</b>          | -20°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 372.48 126.90                                     |                          |                                           |

Warning:



Chemical Structure:



| Test Items        | Method            | Results                                                     |
|-------------------|-------------------|-------------------------------------------------------------|
| Appearance        | Visual inspection | Pale Yellow Solid                                           |
| Identification    | LCMS&HNMR         | Confirmed                                                   |
| Purity            | HPLC              | 99.010%                                                     |
| Water Content     | Karl Fischer      | 0.25%                                                       |
| Residual Solvents | NMR               | 0.57% dichloromethane and 0.18% methyl tertiary butyl ether |
| Assay             |                   | 98.0%                                                       |

## Comment:

The calculation of the mass balance 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:

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Approved by General Manager:

*David*

Date: Aug 19, 2024

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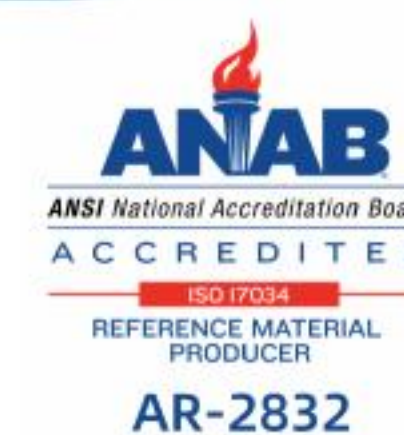
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