

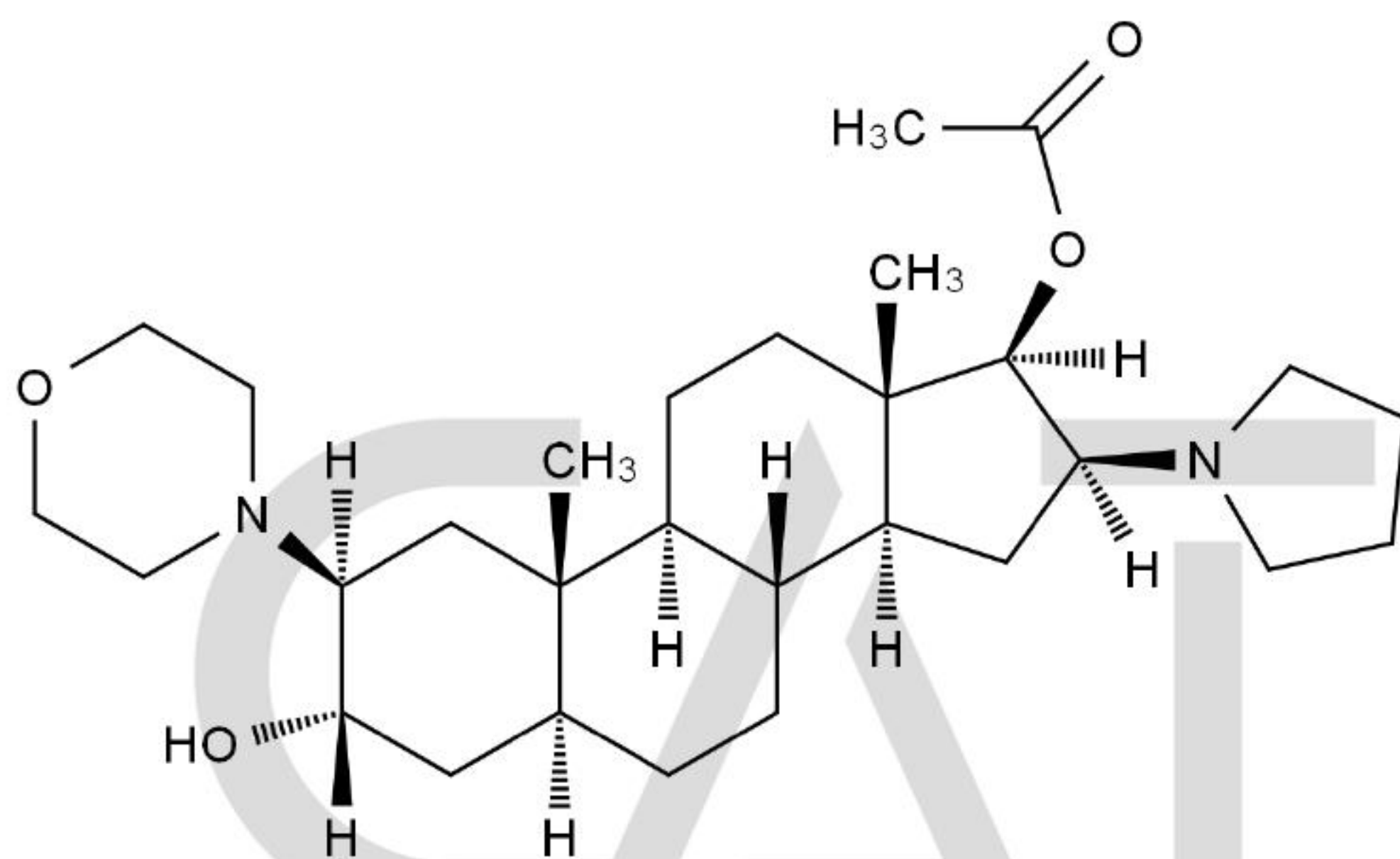
# Certificate of Analysis

## Reference Material & Standard

|                           |                                                               |                          |                                           |
|---------------------------|---------------------------------------------------------------|--------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Rocuronium EP Impurity A                                      | <b>Catalogue Number:</b> | C4X-12421                                 |
| <b>Synonyms:</b>          | Rocuronium Related Compound A                                 | <b>Lot Number:</b>       | 1013-RE-0012                              |
| <b>CAS Number:</b>        | 119302-24-8                                                   | <b>Expiry Date:</b>      | Nov 14, 2027                              |
| <b>Molecular Formula:</b> | C <sub>29</sub> H <sub>48</sub> N <sub>2</sub> O <sub>4</sub> | <b>Storage:</b>          | -20°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 488.70                                                        | <b>Warning:</b>          |                                           |



Chemical Structure:



| Test Items        | Method            | Results             |
|-------------------|-------------------|---------------------|
| Appearance        | Visual inspection | White Solid         |
| Identification    | LCMS&HNMR         | Confirmed           |
| Purity            | HPLC              | 99.929%             |
| Water Content     | Karl Fischer      | 0.37%               |
| Residual Solvents | NMR               | Not detected in NMR |
| Assay             |                   | 99.6%               |

## Comment:

The calculation of the 100% 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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Date: Jun 09, 2025

Date: Jun 09, 2025

