

# Certificate of Analysis

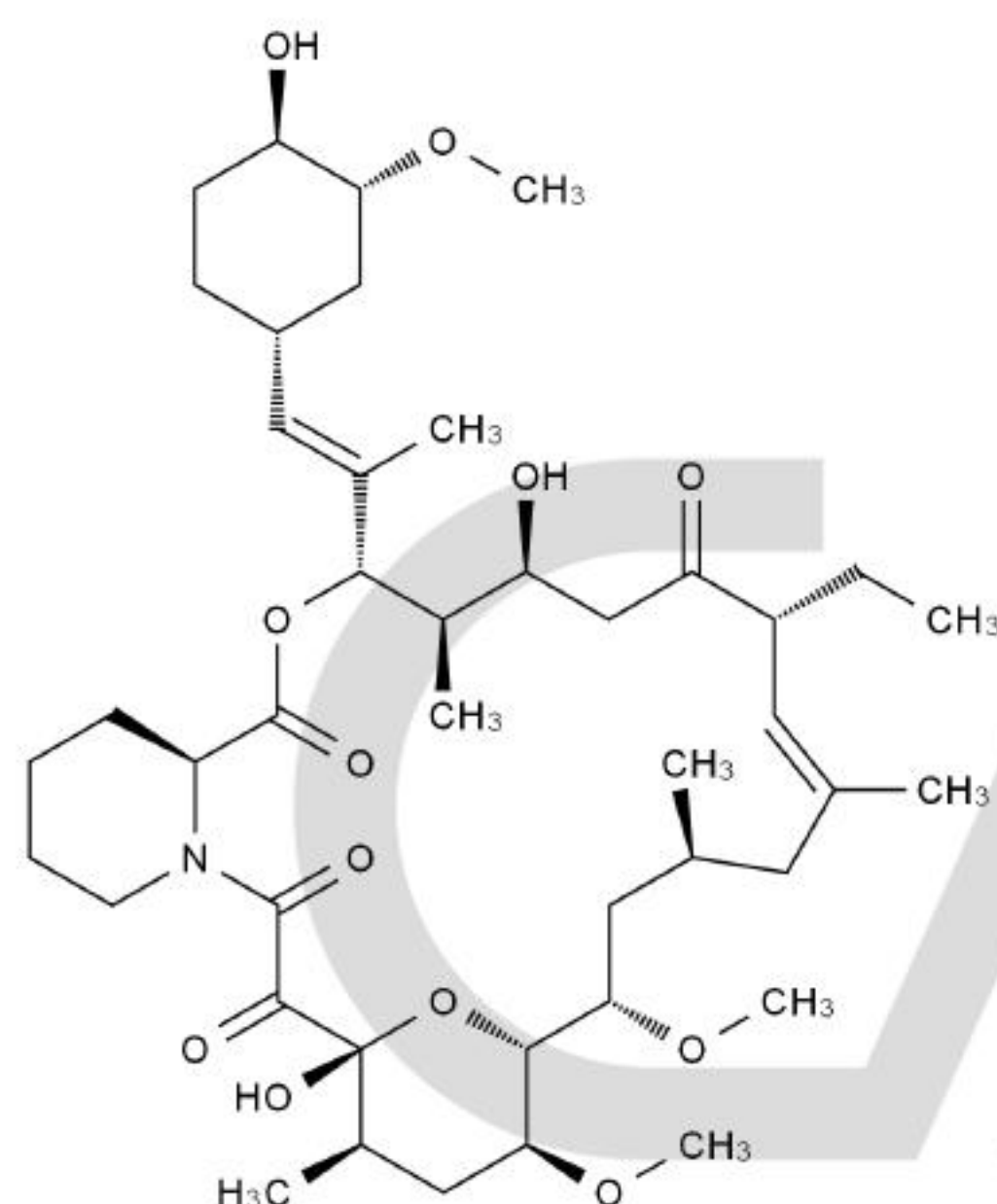
## Reference Material & Standard

|                           |                                                  |                            |                                           |
|---------------------------|--------------------------------------------------|----------------------------|-------------------------------------------|
| <b>Product Name:</b>      | Tacrolimus EP Impurity A                         | <b>Catalogue Number:</b>   | C4X-13006                                 |
| <b>Synonyms:</b>          | Ascomycin                                        | <b>Lot Number:</b>         | 0408-RH-0033                              |
| <b>CAS Number:</b>        | 104987-12-4                                      | <b>Expiry Date:</b>        | Apr 12, 2030                              |
| <b>Molecular Formula:</b> | C <sub>43</sub> H <sub>69</sub> NO <sub>12</sub> | <b>Storage:</b>            | -20°C±5°C Protected from light and Sealed |
| <b>Molecular Weight:</b>  | 792.01                                           | <b>Shipping Condition:</b> | Shipping with Ice Packs                   |

**Warning:**



**Chemical Structure:**



| Test Items     | Method            | Results     |
|----------------|-------------------|-------------|
| Appearance     | Visual inspection | White Solid |
| Identification | LCMS&HNMR         | Confirmed   |
| Purity         | HPLC              | 95.465%     |
| Loss on Drying | TGA               | 1.2484%     |
| Assay          |                   | 94.3%       |

## Comment:

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.

**Signature:**

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Date: Apr 13, 2026

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