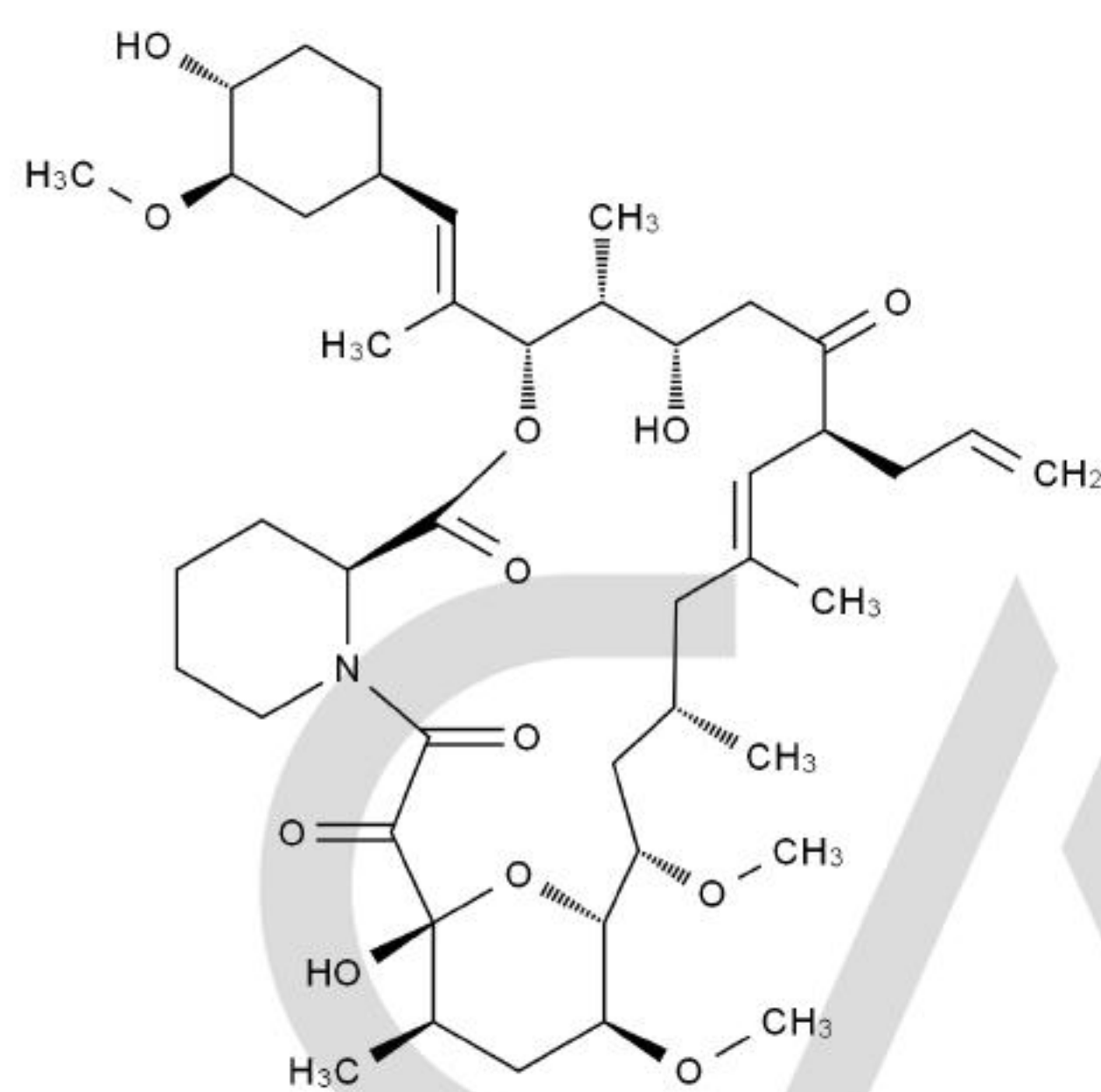


Certificate of Analysis

Reference Material & Standard

Product Name:	Tacrolimus EP Impurity D	Catalogue Number:	C4X-13007
Synonyms:	N/A	Lot Number:	1126-RG-0071
CAS Number:	129212-35-7	Expiry Date:	Dec 17, 2029
Molecular Formula:	C ₄₄ H ₆₉ NO ₁₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	804.02	Shipping Condition:	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&CNMR&HNMR	Confirmed
Purity	HPLC	95.551%
Loss On Drying	TGA	0.5681%
Assay		95.0%

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:

Prepared by:

Nice

Reviewed by:

Koi

Approved by General Manager:

David

Date: Dec 18, 2025

Date: Dec 18, 2025

Date: Dec 18, 2025



Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

