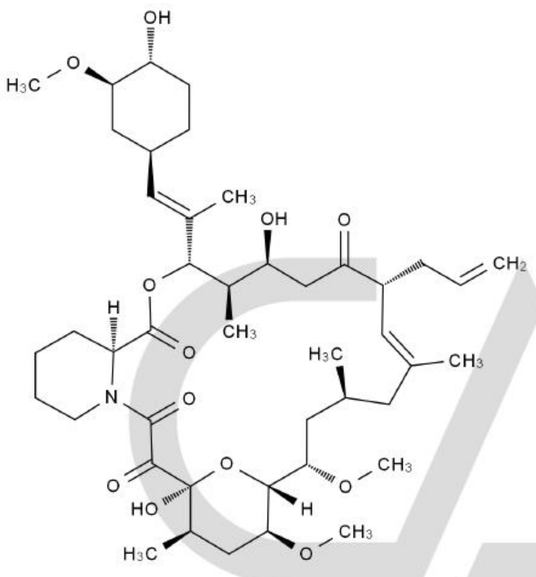
Certificate of Analysis

Reference Material & Standard

Product Name:	Tacrolimus EP Impurity G	**Catalogue Number:**	C4X-130019
Synonyms:	19-Epi FK-506 (Tacrolimus Impurity)	**Lot Number:**	1211-RG-0032
CAS Number:	144490-63-1	**Expiry Date:**	Oct 20, 2027
Molecular Formula:	$C_{44}H_{69}NO_{12}$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	804.02	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.24%
Loss on Drying	TGA	1.009%
Assay	Mass Balance	95.3%

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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: Date: Nov 11, 2026

Reviewed by: Date: Nov 11, 2026

Approved by General Manager: Date: Nov 11, 2026

CATO Research Chemicals Inc.