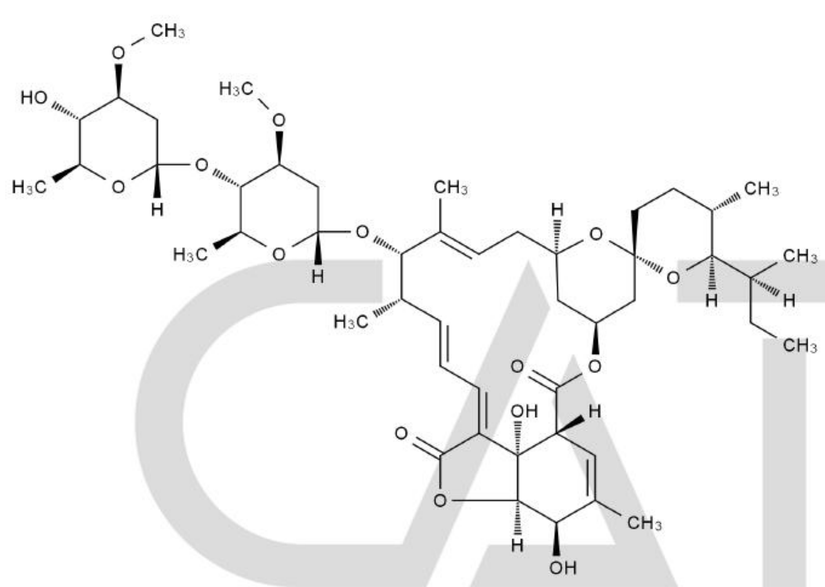
Certificate of Analysis

Reference Material & Standard

Product Name:	Ivermectin EP Impurity D	**Catalogue Number:**	C4X-19824
Synonyms:	28-Oxo Ivermectin B1a (Impurity)	**Lot Number:**	1117-RH-0055
CAS Number:	102190-55-6	**Expiry Date:**	Nov 18, 2030
Molecular Formula:	$C_{48}H_{72}O_{15}$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	889.08	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	96.2%
Assay	qNMR	94.9%

CATO Research Chemicals Inc.

Signature:

Prepared by: Alice Date: Nov 19, 2026

Reviewed by: Lisa Date: Nov 19, 2026

Approved by General Manager: David Date: Nov 19, 2026

CATO Research Chemicals Inc.