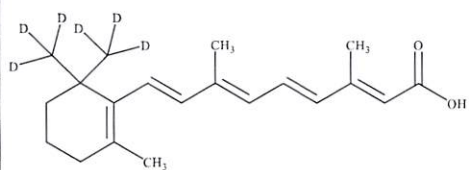


Certificate of Analysis



Certificate No.: 20251229023

Date: December 29, 2025

Retest date: December 23, 2026

Compound Name:	Tretinoin-d₆ (Retinoic Acid-d₆, Isotretinoin EP Impurity A-d₆)	
Synonyms:	(2E,4E,6E,8E)-3,7-dimethyl-9-(2-methyl-6,6-bis(methyl-d ₃)cyclohex-1-en-1-yl)nona-2,4,6,8-tetraenoic acid	
TLC Catalogue Number:	T-114039	
CAS Number:	N/A	
Alternate CAS Number:	302.79-4 (non-labelled)	
Molecular Weight:	306.48	
Molecular Formula:	C ₂₀ H ₂₂ D ₆ O ₂	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7142-097A1	
Storage Conditions:	Protect from light and air, store at -20 °C	
Solubility:	Solution of Methanol and Acetonitrile, DMSO	

Test Description	Specifications	Results
Visual Description	Pale yellow solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	98.1%
Impurity (HPLC)	RT 4.64, 0.31%; RT 5.56, 0.62%; RT 5.98, 0.59%	
Isotopic Enrichment	Not less than 98.0%	99.5%
Water Content (KF)	N/A	0.2%
Residual Solvents (NMR)	0.1% n-hexane and 0.1% diethyl ether	
Assay (%)	Not less than 90.0%	97.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/02/2026
Approved by:	Quality Assurance		01/02/2026

Attachments: Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.