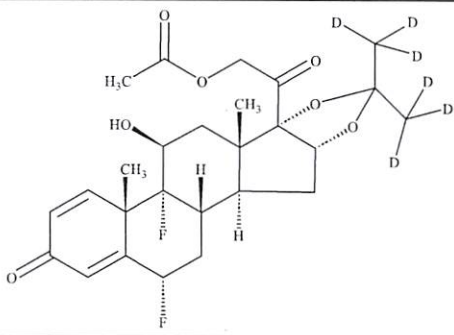


# Certificate of Analysis



 Certificate No.: **20260622011**

Date: June 22, 2026

Retest date: June 17, 2029

<b>Compound Name:</b>	<b>Fluocinonide-d<sub>6</sub> (Fluocinolone Acetonide EP Impurity M-d<sub>6</sub>)</b>	
<b>Synonyms:</b>	2-((2S,6aS,6bR,7S,8aS,8bS,11aR,12aS,12bS)-2,6b-difluoro-7-hydroxy-6a,8a-dimethyl-10,10-bis(methyl-d <sub>3</sub> )-4-oxo-1,2,4,6a,6b,7,8,8a,11a,12,12a,12b-dodecahydro-8bH-naphtho[2',1':4,5]indeno[1,2-d][1,3]dioxol-8b-yl)-2-oxoethyl acetate	
<b>TLC Catalogue Number:</b>	F-2712	
<b>CAS Number:</b>	N/A	
<b>Alternate CAS Number:</b>	356-12-7 (non-labelled)	
<b>Molecular Weight:</b>	500.57	
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>26</sub> D <sub>6</sub> F <sub>2</sub> O <sub>7</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	7471-049A1	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO	

Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
<b>IR</b>	Conforms to structure	<b>Conforms</b>
<b>MS</b>	Conforms to structure	<b>Conforms</b>
<b><sup>1</sup>H NMR</b>	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>98.8%</b>
<b>Impurity (HPLC)</b>	RT 4.10, 0.14%; RT 7.30, 0.43%	
<b>Isotopic Enrichment</b>	Not less than 98.0%	<b>99.2%</b>
<b>Water Content (KF)</b>	N/A	<b>0.3%</b>
<b>Optical Rotation</b>	N/A	$[\alpha]_D^{25.0}(c=0.32, \text{CHCl}_3)$ : <b>+85.9°</b>
<b>Residual Solvents (NMR)</b>	0.1% ethyl acetate	
<b>Assay (%)</b>	Not less than 90.0%	<b>98.4%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/22/2026
Approved by:	Quality Assurance		06/22/2026

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