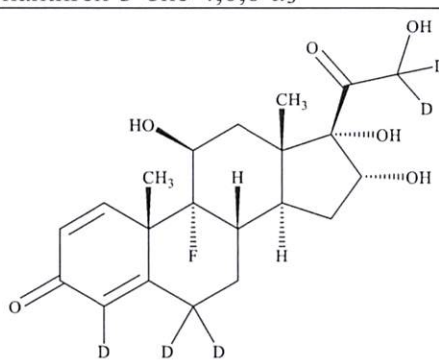


## Certificate of Analysis


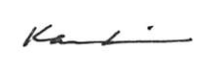
Certificate No.: **20250328019**

Date: March 28, 2025

Retest date: March 25, 2028

<b>Compound Name:</b>	<b>Triamcinolone-d<sub>5</sub> (Triamcinolone Acetonide EP Impurity A-d<sub>5</sub>)</b>	
<b>Synonyms:</b>	(8S,9R,10S,11S,13S,14S,16R,17S)-9-fluoro-11,16,17-trihydroxy-17-(2-hydroxyacetyl-d <sub>2</sub> )-10,13-dimethyl-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[ <i>a</i> ]phenanthren-3-one-4,6,6-d <sub>3</sub>	
<b>TLC Catalogue Number:</b>	T-531	
<b>CAS Number:</b>	N/A	
<b>Alternate CAS Number:</b>	124-94-7 (non-labelled)	
<b>Molecular Weight:</b>	399.47	
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>22</sub> D <sub>5</sub> FO <sub>6</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	6785-042A4	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO	

Test Description	Specifications	Results
<b>Visual Description</b>	Pale yellow 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>98.4%</b>
<b>Impurity (HPLC)</b>	RT 14.07, 0.48%; RT 14.40, 0.17%; RT 18.52, 0.23%	
<b>Isotopic Enrichment</b>	Not less than 98.0%	<b>98.5%</b>
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>22.0</sup> (c=0.50, CH <sub>3</sub> OH): +67.1°	[α] <sub>D</sub> <sup>22.0</sup> (c=0.30, CH <sub>3</sub> OH): +67.0°
<b>Residual Solvents (NMR)</b>	1.9% methanol and 0.2% dichloromethane	
<b>Assay (qNMR)</b>	Not less than 90.0%	<b>93.2%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/28/2025
Approved by:	Quality Assurance		03/28/2025

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