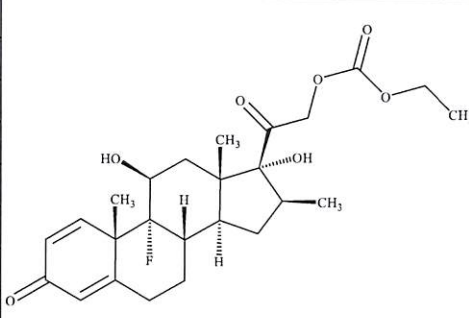


## Certificate of Analysis


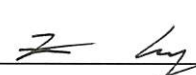
Certificate No.: 20251107511

Date: November 7, 2025

Retest date: November 5, 2028

<b>Compound Name:</b>	<b>Betamethasone EP Impurity D</b>	
<b>Synonyms:</b>	ethyl (2-((8S,9R,10S,11S,13S,14S,16S,17R)-9-fluoro-11,17-dihydroxy-10,13,16-trimethyl-3-oxo-6,7,8,9,10,11,12,13,14,15,16,17-dodecahydro-3H-cyclopenta[a]phenanthren-17-yl)-2-oxoethyl) carbonate	
<b>TLC Catalogue Number:</b>	B-065016	
<b>CAS Number:</b>	52619-05-3	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	464.53	
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>33</sub> FO <sub>7</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	1642-083A8	
<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>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.1%</b>
<b>Impurity (HPLC)</b>	RT 3.13, 0.41%; RT 4.33, 0.37%	
<b>Water Content (KF)</b>	N/A	<b>0.1%</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (%)</b>	Not less than 90.0%	<b>99.0%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		11/07/2025
Approved by:	Quality Assurance		11/09/2025

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