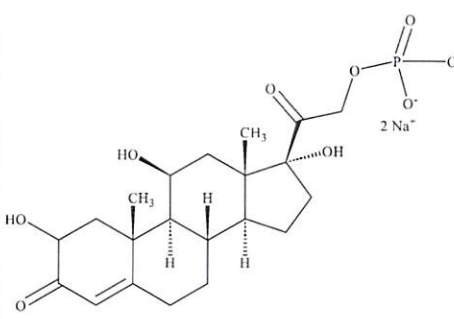


## Certificate of Analysis


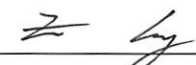
Certificate No.: 20251226009

Date: December 26, 2025

Retest date: December 24, 2028

<b>Compound Name:</b>	<b>Hydrocortisone Impurity 58 Disodium Salt (Mixture of Diastereomers)</b>	
<b>Synonyms:</b>	2-oxo-2-((8S,9S,10R,11S,13S,14S,17R)-2,11,17-trihydroxy-10,13-dimethyl-3-oxo-2,3,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-1H-cyclopenta[a]phenanthren-17-yl)ethyl phosphate, sodium salt (1:2)	
<b>TLC Catalogue Number:</b>	H-103129	
<b>CAS Number:</b>	N/A	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	456.43 2*22.99	
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>29</sub> O <sub>9</sub> P. 2 Na	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	7182-077A7	
<b>Storage Conditions:</b>	Hygroscopic, store at 2-8 °C	
<b>Solubility:</b>	Methanol, Water	

Test Description	Specifications	Results
<b>Visual Description</b>	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 90.0%	<b>96.9%</b>
<b>Impurity (HPLC)</b>	RT 8.13, 0.31%; RT 11.84, 1.44%; RT 15.55, 0.50%	
<b>Residual Solvents (NMR)</b>	0.3% dichloromethane	
<b>Assay (qNMR)</b>	Not less than 80.0%	<b>92.2%</b>
<b>Recommendation:</b>	<b>Release.</b> The compound contains 0.5% Hydrocortisone (RT 15.55, TLC No. H-103034) according to its HPLC.	

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.