

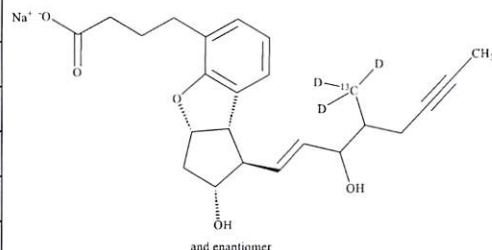
## Certificate of Analysis

Certificate No.: **20250314007**



Date: March 14, 2025

Retest date: February 27, 2028

<b>Compound Name:</b> Beraprost- <sup>13</sup> C-d <sub>3</sub> Sodium Salt (Mixture of Diastereomers)	
<b>Synonyms:</b>	<i>rel</i> -4-((1R,2R,3aS,8bS)-2-hydroxy-1-(( <i>E</i> )-3-hydroxy-4-(methyl- <sup>13</sup> C-d <sub>3</sub> )oct-1-en-6-yn-1-yl)-2,3,3a,8b-tetrahydro-1 <i>H</i> -cyclopenta[ <i>b</i> ]benzofuran-5-yl)butanoate, sodium salt (1:1)
<b>TLC Catalogue Number:</b>	B-095008
<b>CAS Number:</b>	N/A
<b>Alternate CAS Number:</b>	N/A
<b>Molecular Weight:</b>	401.50 22.99
<b>Molecular Formula:</b>	C <sub>23</sub> <sup>13</sup> CH <sub>26</sub> D <sub>3</sub> O <sub>5</sub> . Na
<b>Source:</b>	TLC Pharmaceutical Standards
<b>Source Lot No.:</b>	6695-080A2
<b>Storage Conditions:</b>	Store at 2-8 °C
<b>Solubility:</b>	Methanol, DMSO, Water, Ethanol



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>96.3%</b>
<b>Impurity (HPLC)</b>	RT 7.42, 0.29%; RT 15.78, 2.12%; RT 16.28, 1.24%	
<b>Isotopic Enrichment</b>	Not less than 98.0%	<b>99.5% D; 99.0% <sup>13</sup>C</b>
<b>Water Content (KF)</b>	N/A	<b>0.6%</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (%)</b>	Not less than 90.0%	<b>95.7%</b>
<b>Recommendation:</b>	<b>Release.</b> The compound contains 3.4% M+2 impurity (RT 15.78 and RT 16.28) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/17/2025
Approved by:	Quality Assurance		03/17/2025

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