



Certificate of analysis

Product name: **Latanoprost**

Cas number: 130209-82-4

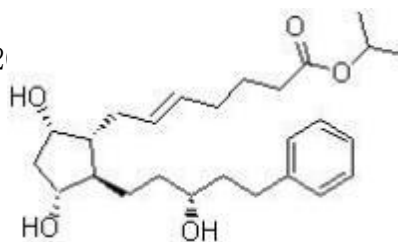
Molecular Formula: $C_{26}H_{40}O_5$

Molecular Weight: 432.60

Date of production: March. 5th, 2025

Batch NO: CDLATAN20240305

EXP DATE: March. 4th, 2025



Chemical structure:

Items	Specifications	Results
Description	Clear, Colourless or yellow, Viscous, oily liquid.	light yellow liquid
Solubility	Practically insoluble in water, very soluble in acetonitrile, freely soluble in anhydrous ethanol	Conform
Identification	A: IR B: The retention time of the major peak in the chromatogram of the sample corresponds to that of the standard solution, as obtained in the assay.	Conform
Specific Rotation	$+32^{\circ} \sim +37^{\circ}$	$+35.7^{\circ}$
Water	$\leq 0.5\%$	0.16%
Residue on ignition	$\leq 0.5\%$	0.05%
Related substances(HPLC)	Related Compound E (15S-cis isomer) $\leq 0.4\%$	Not detectable
	Related Compound F (15R-trans isomer) $\leq 3.5\%$	0.04%
	Related Compound H (Latanoprost acid) $\leq 0.15\%$	Not detectable
	Other max single impurity $\leq 0.1\%$	Not detectable
	Sum of impurities other than F $\leq 1.0\%$	Not detectable
Residue Solvent	n-Hexane: $\leq 0.029\%$	Not detectable
	Ethanol: $\leq 0.5\%$	0.36%
	Methanol: $\leq 0.3\%$	Not detectable
	Isopropanol $\leq 0.5\%$	Not detectable
Purity by HPLC	94.0%~102.0%	99.96%

Conclusion: It complies with the EP11.0 Standard.

Analyst: Zhao

Checker: Liu

Q.C Director. Fang