



TDS (technical data sheet)

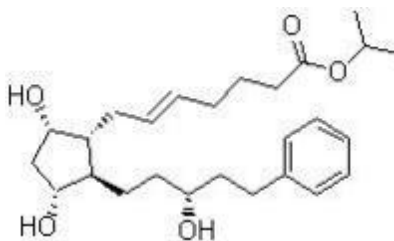
Product name: **Latanoprost**

Cas number: 130209-82-4

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

Molecular Weight: 432.60

Chemical structure:



Items	Specifications
Description	Clear, Colourless or yellow, Viscous, oily liquid.
Solubility	Practically insoluble in water, very soluble in acetonitrile, freely soluble in anhydrous ethanol
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.
Specific Rotation	$+32^{\circ} \sim +37^{\circ}$
Water	$\leq 0.5\%$
Residue on ignition	$\leq 0.5\%$
Related substances(HPLC)	Related Compound E (15S-cis isomer) $\leq 0.4\%$
	Related Compound F (15R-trans isomer) $\leq 3.5\%$
	Related Compound H (Latanoprost acid) $\leq 0.15\%$
	Other max single impurity $\leq 0.1\%$
	Sum of impurities other than F $\leq 1.0\%$
Microbial limit	Total aerobic microbial count: NMT 10^3 CFU/g
	Total yeasts and molds count: NMT 10^2 CFU/g
Residue Solvent	n-Hexane: $\leq 0.029\%$
	Ethanol: $\leq 0.5\%$
	Methanol: $\leq 0.3\%$
	Isopropanol $\leq 0.5\%$
Purity by HPLC	94.0%~102.0%