

Certificate of Analysis

LLP(Light-Liquid-Paraffin)

Sr. No.	Characteristics	As per IP standards	As per BP standards	As per USP standards	
1	Description / appearance	Colourless, transparent, oily liquid; free from florescence in daylight; almost odourless when cold	Colourless, transparent, oily liquid; free from fluorescence in daylight	Colourless, transparent, oily liquid; free from fluorescence in daylight	
2	Solubility	Soluble in chloroform, ether and light petroleum (boiling range 40 – 60 °C); practically insoluble in water and ethanol (95%); miscible with fixed / volatile oils	Practically insoluble in water; partly soluble in ethanol (96%); miscible with hydrocarbons	Insoluble in water and alcohol; soluble in volatile oils; miscible with most fixed oils except castor oil	
3	Identification	–	A) Infrared absorption spectrum is concordant with the reference spectrum of liquid paraffin.	A) Infrared Absorption: Reference Standard	
			B) Red in aqueous phase	B) –	
			C) Complies with viscosity test	C) Complies with viscosity test	
4	Specific gravity at 25 °C	–	–	0.818 min.	0.880 max.
5	Viscosity at 40 °C, mm ² /s	–	–	3 min.	34.4 max.
6	Acidity / alkalinity	Not more than 0.1 ml of 0.1 M sodium hydroxide is required to change the colourless solution into pink	Not more than 0.1 ml of 0.1 M sodium hydroxide is required	Not more than 1 ml of 0.01 N sodium is hydroxide required to change colour of indicator to pink	
7	Relative density	0.810 – 0.875	0.810 – 0.875		
8	Viscosity	–	25 – 80 mPa.s		
9	Dynamic viscosity at 20 °C	25 – 80 mPa.s	–	–	
10	Polycyclic aromatic hydrocarbons	–	Absorbance of test solution remains < 1/3rd that of reference solution at 275 nm, throughout 260 – 420 nm wavelengths	Pass as per USP	
11	Weight per ml at 25 °C	0.820 to 0.880 g	–	–	
12	Light absorption at 240 – 280 nm	0.1 max.	–	–	
13	Readily carbonisable substance	Complies	Complies	Complies	
14	Solid paraffins	Complies	Complies	Complies	
15	Sulphur compound	Complies	–	Complies	
16	Specific gravity	0.860 – 0.904	–	–	