



" clyzo " - Monograph Comparison



AS PER CURRENT USP 2022/EP11/JP18

Product Name	Sesame Oil		Issue Date	March-23
Product Code	HL-SES		Prepared by	Sr. Tech Lead
CAS NO.	112-80-1		Reviewed by	Manager Technical
Manufacturer Name	Henry Lamotte Oil		Version no.	CLYZO/HL/HL-SES/01

Sr. No.	Test	Manufacturer COA		Pharmacopeial Specifications	
		Complies USP 43 - NF 38	USP 2022	EP Version 11.0	JP 18
1	Description	Not mentioned	Pale yellow, oily liquid. Is practically odorless, and has a bland taste.	clear, light yellow liquid, almost colourless.	PRODUCT NOT AVAILABLE IN JP MONOGRAPH
2	Solubility	Not mentioned	Slightly soluble in alcohol. Miscible with ether, with chloroform, with solvent hexane, and with carbon disulfide.	Practically insoluble in ethanol (96 per cent), miscible with light petroleum.	
3	Identification 1 (Triglyceride Composition)	Comply	Identity by Triglyceride Profile: Should comply with triglyceride composition test	Should comply with the composition of triglycerides test.	
4	Identification 2	NA	NA	Should comply with identification of fatty oils by thin-layer chromatography	
5	Colour lovibond 5 1/4" yellow	2.5	NA	NA	
6	Colour lovibond 5 1/4" red	0.2	NA	NA	
7	Colour gardner	0.6	NA	NA	
8	Specific gravity @25°C	0.918	0.912 - 0.921	NA	
9	Relative density	Not mentioned	NA	about 0.919	
10	Refractive index @20°C	1.472	NA	about 1.473	
11	Iodine Value	107	103 - 116	NA	
12	Saponification Value	191	188 - 195	NA	
13	Solidification range of the fatty acids	21 °	20° - 25°C	It solidifies to a butter-like mass at about - 4°C.	
14	Alkaline impurities	Complies	NMT 0.1 mL of 0.01 N HCl is required.	It complies with the test for alkaline impurities in fatty oils.	
15	Acid value (free fatty acids)	0.04	NMT 2.0 mL of 0.020 N NaOH is required for neutralization.	NMT 0.5, determined on 10.0 g; NMT 0.3 if intended for use in the manufacture of parenteral preparations.	
16	Peroxide Value	Complies	MMT 10.0	NMT 10.0; NMT 5.0 if intended for use in the manufacture of parenteral preparations.	
17	Unsaponifiable matter	1.3%	NMT 1.5 %	NMT 2.0 %	
18	Water determination	0.02%	NMT 0.1 %	NMT 0.1 %	
19	Cottonseed Oil	Complies	No reddish color develops within 15 min.	No reddish colour develops within 15 min.	
20	Triglyceride Composition:				
	trilinolein (LLL)	10.3%	7.0 - 19.0 %	7.0 - 19.0 %	
	1,2-dilinoleoyl-3-oleoyl-rac-glycerol (OLL)	19.8%	13.0 - 30.0 %	13.0 - 30.0 %	
	1,2-dilinoleoyl-3-palmitoyl-rac-glycerol (PLL)	6.6%	5.0 - 9.0 %	5.0 - 9.0 %	
	1,2-dioleoyl-3-linoleoyl-rac-glycerol (OOL)	18.9%	14.0 - 25.0 %	12.0 - 23.0 %	
	1-palmitoyl-2-oleoyl-3-linoleoyl-rac-glycerol (POL)	8.0%	8.0 - 16.0 %	6.0 - 14.0 %	
	triolein (OOO)	11.4%	5.0 - 14.0 %	5.0 - 16.0 %	
	1-linoleoyl-2-oleoyl-3-stearoyl-rac-glycerol (SOL)	5.6%	2.0 - 8.0 %	2.0 - 8.0 %	
	1,2-dioleoyl-3-palmitoyl-rac-glycerol (POO)	5.50%	2.0 - 8.0 %	2.0 - 10.0 %	
21	Fatty acid composition		NA	NA	
	Lauric acid (C 12:0)	< 0,1 %			
	Myristic acid (C 14:0)	< 0,1 %			
	Myristoleic acid (C 14:1)	< 0,1 %			
	Palmitic acid (C 16:0)	9,6 %			
	Palmitoleic acid (C 16:1)	0,2 %			

	Margaric acid (C 17:0)	< 0,1 %			
	Heptadecenoic acid (C 17:1)	< 0,1 %			
	Stearic acid (C 18:0)	6,1 %			
	Oleic acid (C 18:1)	42,9 %			
	Linoleic acid (C 18:2)	40,0 %			
	Linolenic acid (C 18:3)	0,2 %			
	Octadecatetraenoic acid (C 18:4)	< 0,1 %			
	Arachidic acid (C 20:0)	0,7 %			
	Eicosenoic acid (C 20:1)	0,2 %			
	Eicosanedienoic acid (C 20:2)	< 0,1 %			
	Eicosanetetraenoic acid (C 20:4)	< 0,1 %			
	Behenic acid (C 22:0)	0,2 %			
	Erucic acid (C 22:1)	< 0,1 %			
	Lignoceric acid (C 24:0)	0,1 %			
	Nervonic acid (C 24:1)	< 0,1 %			
	Storage		Preserve in tight, light-resistant containers, and prevent exposure to excessive heat.	In an airtight, well-filled container, protected from light; if intended for use in the manufacture of parenteral preparations store under an inert gas in an airtight container. When the container has been opened, its contents are to be used as soon as possible. Any part of the contents not used at once is protected by an atmosphere of an inert gas.	
Note - If you need any additional testing, you may use our Additional Testing Feature on the product page or contact your Clyzo representative.					
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