

LIPOSOME CHARACTERISATION ANALYSIS

Date: 15/07/24

PRODUCT DETAILS:

Product name	REDACTED INFORMATION	Manufacturer	REDACTED
Ingredients	Purified Water, Glycerol, Phospholipids (from sunflower), Magnesium Bisglycinate, REDACTED INFORMATION		

ORGANOLEPTIC:

	ANALYSIS	METHOD	RESULTS	CONCLUSION
1	Odour	Organoleptic	Apple smell	Pleasant
2	Appearance	Visual Inspection	Light brown	The product was crystallised
3	Taste	Organoleptic	Apple taste	Pleasant
4	Texture/viscosity	Visual inspection	Viscous liquid	Free flowing thick liquid

MICROMETRIC PROPERTIES:

	ANALYSIS	METHOD	RESULTS	CONCLUSION	
1	Particle Size (Nm)	Zetasizer	332.3	PASS	
2	Particle Size Distribution (PDI)	Zetasizer	0.344		
3	Lipid Detection	Sudan test	NEGATIVE	FAIL	
4	PH	Ph meter	4.9	PASS	







CONTAMINATIONS (Microbiology)

S. NO.	ITEM	SPEC. (CFU/G)	RESULT (CFU/G)	METHODS
1	TPC	< 10 ⁶	< 106	Ph. Eur. 5.1.4
2	Aerobic Plate Count	< 10 ⁴	< 10 ⁴	AOAC 990.12
3	Yeast and Mold Count	< 10 ²	< 10 ²	AOAC 997.02

CONCLUSION:

Product was tested using a validated method (Sudan III test.)
Result was negative - there were no distinct layers in the sample, and there were no phospholipids present in the sample.

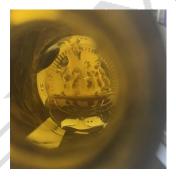


Sample under Sudan III test



Control under Sudan III test

2. On evaluation of visual appearance, crystals were observed stuck to the inside of bottle.



Observation of crystals in sample

3. This product does not any Vitamin E which acts as a protectant for liposomes.







SSR approval

	Print name	Position	Signature	Date
Operated by	Elnaz Salehian	R&D Scientist	ES	20/07/2024
Reviewed by	Dr. Hanan Abdalmaula	Lead Scientific Researcher	НА	24/07/2024
Approved by				_



