

CHEMISCAPE LAB

ANALYTICAL & QUALITY CONTROL LABORATORY

ANALYTICAL TEST REPORT

REPORT INFORMATION

Report No: CHL/ATR/2026/0529
Issue Date: 01 June 2026
Date of Receipt: 26 May 2026
Testing Period: 27 May 2026 – 31 May 2026

CLIENT INFORMATION

Company: COFOREST
Brand Name: COFOREST
Contact Person: COFOREST

SAMPLE INFORMATION

Product Name: Micro Retinol RX
Category: Encapsulated Retinol Night Repair Milky Serum
Batch No: CF-MRRX-0825-012
Mfg. Date: August 2025
Expiry Date: February 2027
Qty Received: One Sealed Retail Pack
Condition: Received in Good Condition
Packaging: Frosted Glass Bottle with Dropper

PHYSICAL EXAMINATION

TEST PARAMETER	METHOD	SPECIFICATION	RESULT	STATUS
Appearance	Visual Examination	Smooth Milky Emulsion	Smooth Milky Emulsion	PASS
Colour	Visual	White to Off-White	Milky White	PASS
Odour	Organoleptic	Characteristic	Characteristic	PASS
Texture	Visual	Smooth & Non-Greasy	Smooth	PASS
Homogeneity	Visual	Uniform	Uniform	PASS
Phase Separation	Visual	Nil	Nil	PASS

PHYSICAL & CHEMICAL TESTING

TEST PARAMETER	METHOD	SPECIFICATION	RESULT	STATUS
pH (25°C)	Digital pH Meter	5.0 – 6.0	5.41	PASS
Density (20°C)	ASTM Method	0.98 – 1.05 g/ml	1.018 g/ml	PASS
Specific Gravity	ASTM Method	0.98 – 1.05	1.018	PASS
Viscosity	Brookfield Viscometer	2500 – 6000 cP	3828 cP	PASS
Centrifuge Stability	Internal Method	No Phase Separation	Pass	PASS
Thermal Stability	Stability Study	Stable at 45°C	Stable	PASS
Freeze–Thaw Stability	Internal Method	Stable after 3 Cycles	Stable	PASS

HEAVY METAL ANALYSIS

PARAMETER	SPECIFICATION	RESULT	STATUS
Lead (Pb)	NMT 20 ppm	Not Detected	PASS
Arsenic (As)	NMT 2 ppm	Not Detected	PASS
Mercury (Hg)	NMT 1 ppm	Not Detected	PASS
Cadmium (Cd)	NMT 5 ppm	Not Detected	PASS

MICROBIOLOGICAL TESTING

PARAMETER	SPECIFICATION	RESULT	STATUS
Total Aerobic Microbial Count	<100 CFU/g	<10 CFU/g	PASS
Total Yeast & Mold Count	<100 CFU/g	<10 CFU/g	PASS
Escherichia coli	Absent	Absent	PASS
Staphylococcus aureus	Absent	Absent	PASS
Pseudomonas aeruginosa	Absent	Absent	PASS
Salmonella spp.	Absent	Absent	PASS

TEST METHODS SUMMARY

- Visual Examination

- Organoleptic Evaluation
- Digital pH Meter
- Brookfield Viscometer
- ASTM Density Determination
- Internal Cosmetic Stability Method
- ICP-OES Heavy Metal Screening
- ISO-Based Cosmetic Microbiological Testing Procedures

LABORATORY OBSERVATION & CONCLUSION

Observation: The submitted sample was received in a sealed and satisfactory condition. The product exhibited a smooth, homogeneous milky emulsion with no evidence of phase separation, creaming, or instability during the evaluation period. The physicochemical characteristics, stability profile, heavy metal content, and microbiological quality complied with the established laboratory acceptance criteria for all parameters evaluated.

Conclusion: Based on the physical, chemical, heavy metal, stability, and microbiological analyses performed, the submitted sample of Micro Retinol RX Encapsulated Retinol Night Repair Milky Serum complied with the laboratory acceptance criteria for all parameters tested. The product demonstrated satisfactory quality, excellent emulsion stability, and microbiological safety under the specified laboratory testing conditions.

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CHEMISCAPE LAB

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