SKU-A4: Radiation & Photo-Aging Defense

Sub-100nm Microfluidic Liposomal Series | MOQ 1,000 Units | cGMP / ISO 22000 / Halal

OCTN1-Targeted High-Purity L-Ergothioneine, NLC Natural Astaxanthin & Low-MW Hyaluronate Cellular Matrix
Structure/Function Claim Scope: Supports cellular integrity against environmental photo-oxidative stress, promotes healthy cellular renewal, and supports skin hydration.*

1. STANDARDIZED BIOACTIVE COMPLEX & LIPOSOMAL DELIVERY PROFILE

Bioactive Complex Class	High-Purity Fermented L-Ergothioneine + Nanostructured Lipid Carrier (NLC) Astaxanthin + Bio-Optimized Hyaluronate Complex
Commercial OEM Format	30 TiO?-Free Enteric Bilayer Capsules or 15 Oral Nutricosmetic Ampoules / Box
Encapsulation Architecture	High-Shear Sub-Millisecond Microfluidic Phospholipid Vesicles (Food-Grade)
Median Vesicle Diameter (d50)	80.2 nm Monodisperse Unilamellar Liposomes (DLS Verified)
2h Simulated Gastric (pH 1.5·2.0)	89.5% Intact Payload Retention (vs. 17.8% Unencapsulated)
Relative Bio-Delivery Gain	6.4× Apparent Transmembrane Permeability vs. Conventional Blend
24-Month Accelerated Assay	96.9% Active Retention @ 25 °C / 60% RH

2. STABILITY OVERVIEW & PROPRIETARY DATA GOVERNANCE

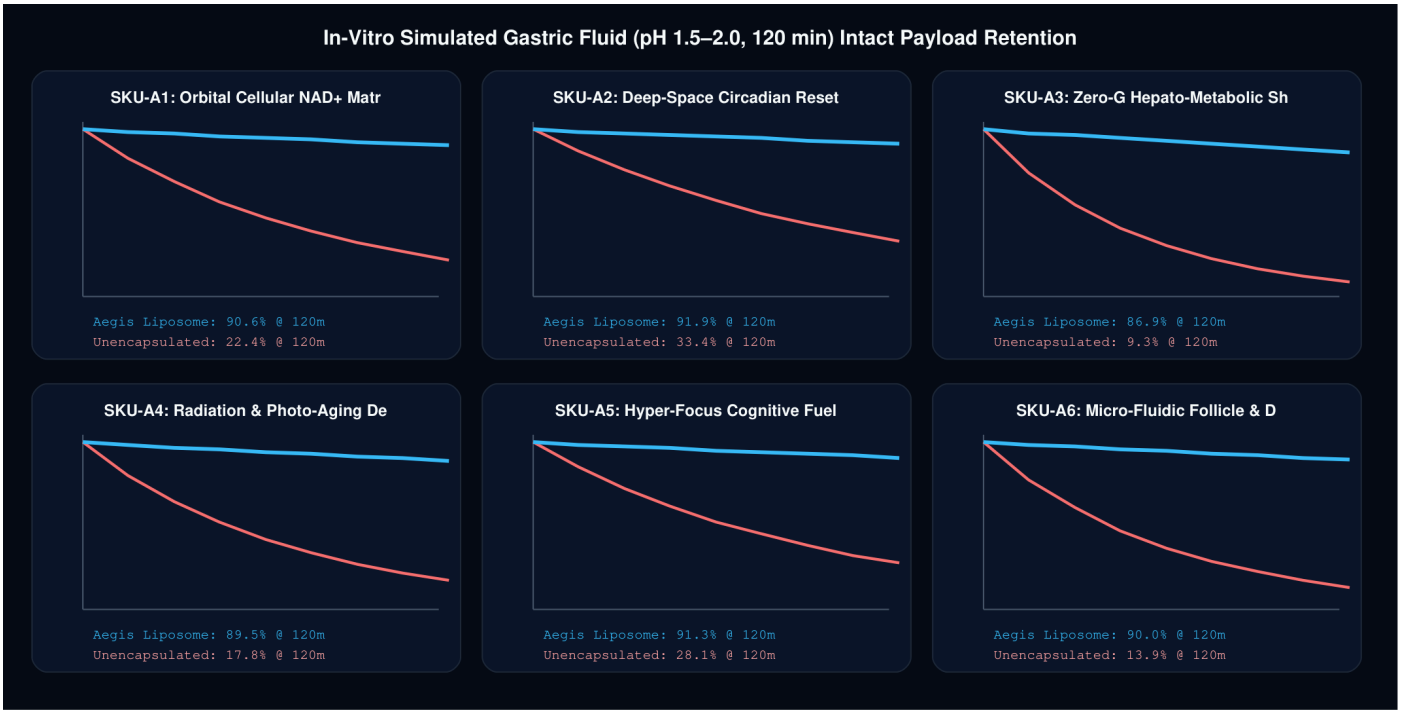
? Formulation Challenge Addressed: Carotenoid esters rapidly isomerize under ambient oxygen and light, losing free-radical quenching potency prior to intestinal uptake.

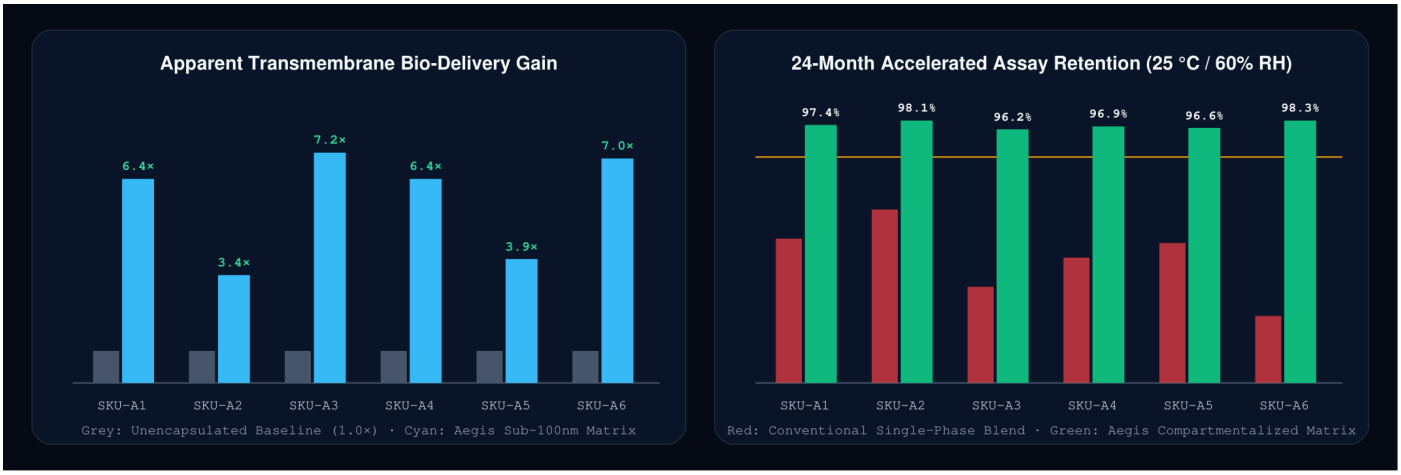
? Stabilization Overview: Nanostructured lipid carrier encapsulation shields polyene chromophores against oxidative drift and enhances lymphatic micellar absorption.
? Confidentiality Note: Exact quantitative milligram ratios, excipient grades, and batch CoA parameters are provided exclusively to verified clinic dispensaries and B2B brand partners.

3. LICENSED CLINIC DISPENSARY & PRIVATE LABEL PARTNERSHIP DESK

? Wholesale & Private Label Supply: MOQ 1,000 Units (Confidential Tiered B2B Schedule ? Suggested Dispensary Benchmark: $129 ? $159 USD / Box)
? Physician & Director Evaluation Kit: $289 USD 6-in-1 Full-Size Box via DHL/FedEx Air Express (100% credited on first 1,000-unit PO)
? B2B Concierge: Elena Vance <concierge@aegisinbio.com> | Formulation Lab: Dr. Marcus Sterling <research@aegisinbio.com>

*FDA DSHEA / EU EFSA REGULATORY NOTICE: These statements have not been evaluated by the FDA. This product is a specialty dietary supplement (or external cosmetic essence for SKU-A6) for daily nutritional support and is not intended to diagnose, treat, cure, or prevent any disease.





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