

Liposomal

by INTABIOTECH



www.intabiotech.com

Full Range of Liposomates by INTABIOTECH

Lipid **encapsulation** solutions with **high bioavailability** for formulators, product managers, and researchers in advanced nutrition. A complete line of 32 active ingredients designed to maximize absorption and clinical efficacy.

TECHNICAL CATALOG 2026



Why Liposomals?



Active Protection

The phospholipid bilayer protects the active ingredient from gastric degradation, digestive enzymes, and oxidation, preserving molecular integrity until it reaches the absorption site.



Superior Bioavailability

Liposomal encapsulation enables significantly greater absorption compared to conventional forms, with documented increases of up to 10× in some lipophilic and hydrophilic actives.



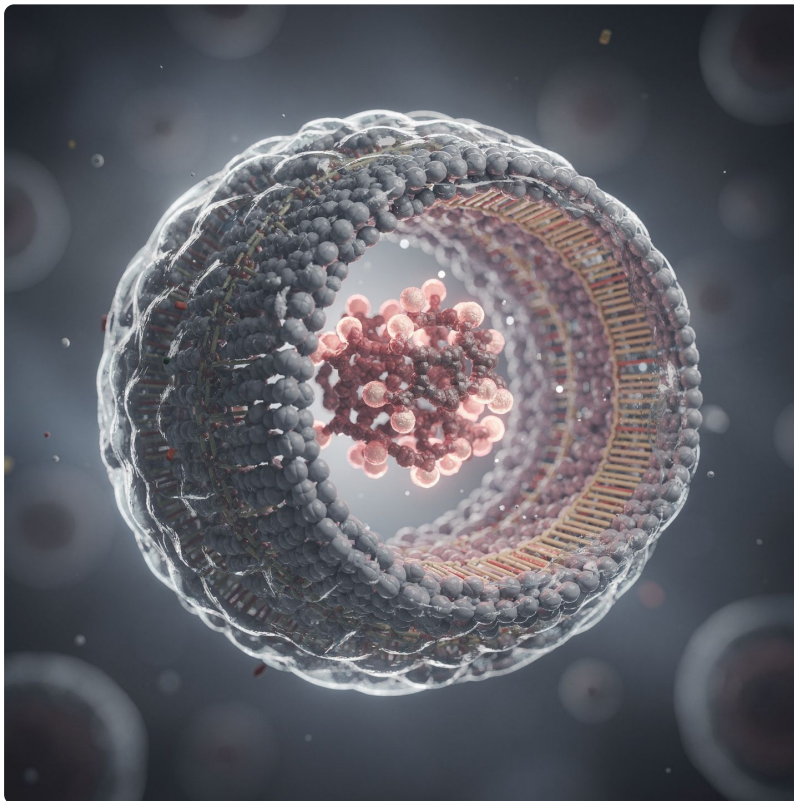
Targeted Release

Liposomes facilitate fusion with cell membranes and intracellular release of the active, optimizing tissue distribution and efficacy at lower doses.



Formulation Versatility

Compatible with liquid, powder, and capsule formats. Water-soluble presentations allow direct integration into beverages and aqueous formulas without compromising stability.



CROSS-SECTION OF
LIPOSOMAL ARCHITECTURE

INTABIOTECH

Inspired by Nature — Driven by Science

Liposomal Ashwagandha

BOTANICAL-HERBAL ADAPTOGENS

SPC 1 — Water-Soluble Ashwagandha 5%

Water-soluble formulation of ashwagandha extract at **5% withanolides** with a standard concentration of **1.5%**. Ideal for functional beverages, nootropic shots, and liquid supplements where water dispersibility is critical.

- Complete solubility in aqueous systems
- No sedimentation or phase separation
- Suitable for RTD and instant powder applications

SPC 2 — Lipo-Ashwagandha 5%

Classic liposomal version of ashwagandha extract at **5% withanolides**, with a standard formulation at **1.5%**. Lipid encapsulation enhances intestinal absorption and protects withanolides from gastric degradation.

- High stability in lipid matrices
- Optimal for soft capsules and softgels
- Extended-release profile



Cellular Energy Cofactors

Key ingredients for mitochondrial support, ATP synthesis, and NAD⁺ regeneration. All available in high-concentration liposomal format.

Lipo-Q10

Conc. 70% / SPC 50%

Liposomal Coenzyme Q10 for mitochondrial support and cardiovascular antioxidant protection. Maximum bioavailability compared to conventional crystalline forms.

Lipo-NMN

Conc. 70% / SPC 50%

Liposomal nicotinamide mononucleotide, a direct precursor of NAD⁺. Supports energy metabolism, longevity, and DNA repair.

Lipo-NAD⁺

Conc. 70% / SPC 50%

NAD⁺ directly encapsulated in a liposome for maximum intracellular delivery efficiency, bypassing luminal hydrolytic degradation.

Lipo-NR

Conc. 70% / SPC 50%

Liposomal nicotinamide riboside. An alternative NAD⁺ precursor with excellent gastrointestinal tolerability and superior absorption profile.

Lipo-NADH

Conc. 70% / SPC 50%

The reduced form of NAD⁺, an essential cofactor in the electron transport chain. Stabilized in a liposomal matrix to preserve its active form.

Lipo-PQQ

Conc. 70% / SPC 50%

Liposomal pyrroloquinoline quinone. A redox cofactor that stimulates mitochondrial biogenesis and protects neurons from oxidative stress.



food safety regulations

Food safety regulations are designed to ensure that food is safe for consumption and to protect public health. These regulations cover various aspects of food production, processing, and distribution, including hygiene, labeling, and inspection. The goal is to minimize the risk of foodborne illness and to ensure that consumers have access to safe and high-quality food products.

Food safety regulations are typically enforced by government agencies, such as the Food and Drug Administration (FDA) in the United States or the European Food Safety Authority (EFSA) in the European Union. These agencies conduct inspections, issue permits, and enforce penalties for non-compliance with the regulations.

Liposomal Polyphenols and Antioxidants

HIGH CONCENTRATION

Lipo-Curcumin — 70% / 30% / SPC 50%

Liposomal curcumin available in three active concentration options (70%, 30%, or 50% in SPC). Overcomes the absorption limitations inherent to free curcumin, with high aqueous solubility and stability against alkaline degradation.

Lipo-Resveratrol — 70% / SPC 50%

Encapsulated trans-resveratrol designed to overcome its low oral bioavailability. Activates the SIRT1/AMPK pathway with applications in longevity, cardiovascular health, and metabolism.

Lipo-Fisetin — 70%

High-concentration (70%) liposomal senolytic flavonoid. Encapsulation resolves the poor intestinal absorption of free fisetin, enhancing its senolytic and neuroprotective activity.

Lipo-Quercetin — 70% / SPC 50%

Liposomal quercetin with anti-inflammatory, antioxidant, and immunomodulatory properties. The liposomal format prevents the rapid intestinal metabolism characteristic of free quercetin.

Lipo-Apigenin — 70% / SPC 50%

Liposomal apigenin, a flavonoid with anxiolytic, anti-inflammatory, and senolytic properties. Encapsulation significantly improves its oral pharmacokinetic profile.

Specialized Antioxidants and Hepatoprotectors (LiverProtct*)

Lipo-GSH — 70% / SPC 50%

Liposomal reduced glutathione, the body's master antioxidant. Encapsulation overcomes the intestinal hydrolysis of free glutathione, ensuring intracellular delivery of the intact tripeptide.

Lipo-ALA — 70% / SPC 50%

Liposomal alpha-lipoic acid. A universal antioxidant soluble in both water and fat, with the ability to regenerate other antioxidants (vitamin C, E, glutathione) and support glucose metabolism.

Lipo-Silymarin — 70% / 35% / SPC 50%

Liposomal silymarin with three concentration options. A reference hepatoprotector with anti-inflammatory and antifibrotic properties. Encapsulation improves its characteristically low aqueous solubility.

Lipo-Ergothiazine — 70% / SPC 50%

Liposomal ergothioneine, a microbially derived antioxidant amino acid with unique cytoprotective properties. Stable against heat and UV radiation; preferentially accumulates in tissues under high oxidative stress.

Lipo-VC — 60–80%

Liposomal vitamin C with a concentration range of 60% to 80%. Surpasses the intestinal saturation threshold of conventional vitamin C, achieving plasma levels comparable to intravenous administration at oral doses.

Lipo-Berberine — 70% / 30% / SPC 50%

Liposomal berberine with three concentration options. A key active ingredient for glucose metabolism, lipid profiles, and gut microbiota, with significantly superior bioavailability compared to conventional berberine HCl.



Liposomal Vitamins and Micronutrients

VITAMINS & MINERALS

Lipo-VD3

Liposomal Vitamin D3 in three potencies: **0.25% (100,000 IU/g)**, **0.125% (50,000 IU/g)**, and **0.50% (200,000 IU/g)**. Dosage flexibility for maintenance formulations or loading doses.

Lipo-VB

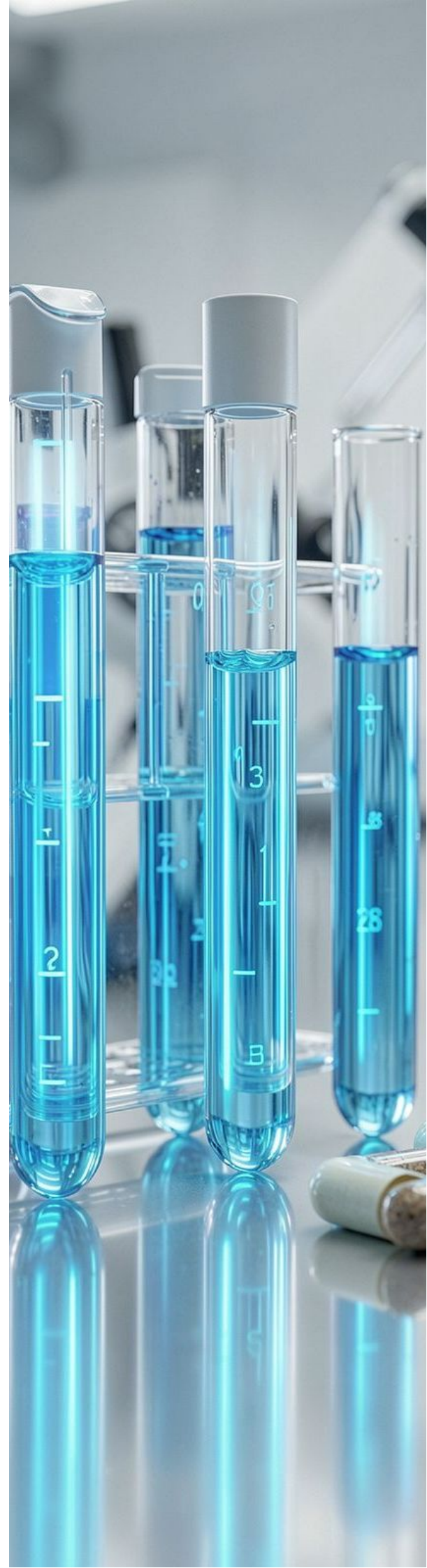
Liposomal B-vitamin complex at **70%**. Energy, neurological, and metabolic support with optimized cellular absorption compared to conventional crystalline forms.

Lipo-VK2

Liposomal Vitamin K2 (MK-7) at **2000 PPM** in two presentations of equivalent concentration. A key active ingredient for osteocalcin and MGP carboxylation, with applications in bone and vascular health.

Lipo-Nicotinamide

Liposomal Nicotinamide at **70% / SPC 50%**. NAD⁺ precursor with high tolerability (no flush). Especially indicated for longevity formulations, DNA repair, and metabolic health.



Liposomal Minerals

Liposomal encapsulation of minerals resolves intestinal absorption competition and reduces the gastrointestinal irritation typical of conventional mineral salts.



Lipo-Zn — Zinc 8%

Liposomal zinc with an elemental content of **8%**. Essential mineral for immune function, protein synthesis, wound healing, and enzymatic zinc metabolism. High gastrointestinal tolerability.



Lipo-Mg (Mineral) — Magnesium 7%

Elemental liposomal magnesium at **7%** (SPC 23). Direct mineral formulation with high tolerability. Indicated for muscle function, nervous system support, and energy metabolism.



Lipo-Mg (Extract) — 70% / SPC 50%

Liposomal magnesium in high-concentration extract form at **70% / SPC 50%** (SPC 27). Advanced formulation designed for high-potency applications in cognitive health and neuromodulation.



Lipo-Fe — 70% / SPC 50%

Liposomal iron at **70% / SPC 50%**. Overcomes the low bioavailability and high gastrointestinal irritation of conventional ferric salts. Ideal for high-tolerability anti-anemia formulas.



Wellness & Longevity Assets

Lipo-PEA — 70% / SPC 50%

Liposomal Palmitoylethanolamide. Endogenous mediator with anti-inflammatory and analgesic properties. Encapsulation improves the low oral absorption of this lipid molecule.

Lipo-DHM — 70% / SPC 20%

Liposomal Dihydromyricetin (*Hovenia dulcis*). Hepatoprotective active with special interest in ethanol metabolism and liver support. Standard concentration at 20%.

Lipo-AKG — 70% / SPC 50%

Liposomal Alpha-ketoglutarate. Krebs cycle intermediate with emerging epigenetic and anti-aging properties. Support for energy metabolism and collagen synthesis.

Lipo-Fisetin — 70%

Liposomal Fisetin at **70%**. Senolytic flavonoid with neuroprotective activity and the ability to reduce the burden of senescent cells. High potency in a single concentration format.

Lipo-GABA — 70% / SPC 50%

High-concentration liposomal GABA. Inhibitory neurotransmitter with applications in anxiety, sleep quality, and relaxation. Encapsulation enhances crossing of the intestinal barrier.

Lipo-Urolithin A — 15%

Liposomal Urolithin A at **15%**. Postbiotic metabolite with documented mitophagic activity. Support for muscle health, longevity, and mitochondrial function in older adults.

Lipo-Apigenin — 70% / SPC 50%

Liposomal Apigenin. Flavonoid found in chamomile with AMPK activity, anxiolytic properties, and senolytic capacity. Compatible with nootropic and longevity formulations.

Lipo-ALA — 70% / SPC 50%

Liposomal Alpha-lipoic acid. Bifunctional antioxidant (water- and fat-soluble) with activity in neuropathy, blood glucose regulation, and endogenous antioxidant regeneration.

Full Range Summary Table

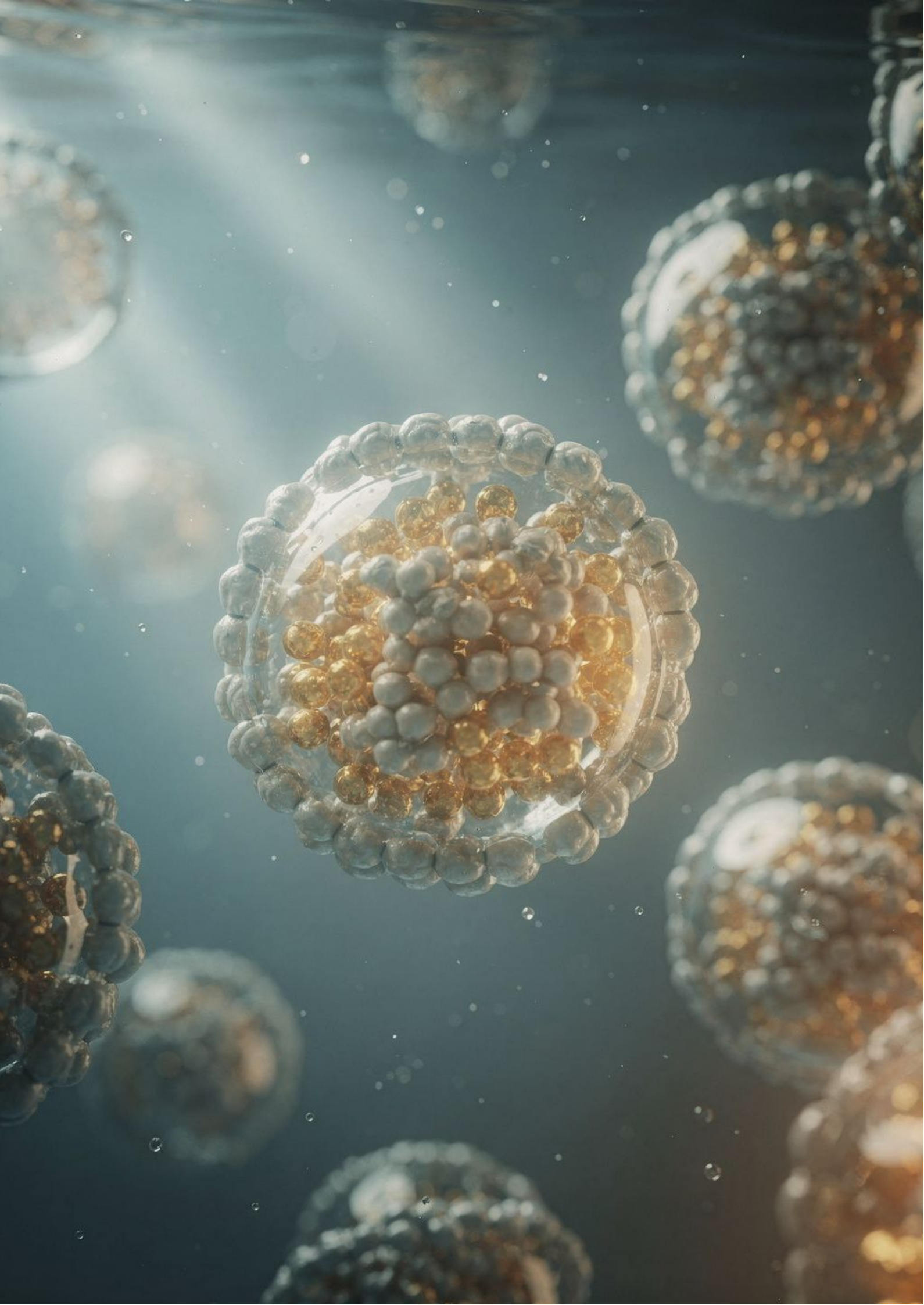
Consolidated technical reference for all liposomal ingredients with their codes, active concentrations, and available SPC specifications.

Cod e	Product	Active Concentration	SPC / Notes
1	Water-Soluble Ashwagandha 5%	5%	SPC 1.5% — Water-Soluble
2	Lipo-Ashwagandha 5%	5%	SPC 1.5%
3	Lipo-GSH	70%	SPC 50%
4	Lipo-Q10	70%	SPC 50%
5	Lipo-NMN	70%	SPC 50%
6	Lipo-DHM	70%	SPC 20%
7	Lipo-PEA	70%	SPC 50%
8	Lipo-Urolithin A	15%	—
9	Lipo-Curcumin	70% / 30%	SPC 50%
10	Lipo-Berberine	70% / 30%	SPC 50%
11	Lipo-Fisetin	70%	—
12	Lipo-VC	60–80%	Liposomal Vitamin C
13	Lipo-Resveratrol	70%	SPC 50%
14	Lipo-Silymarin	70% / 35%	SPC 50%
15	Lipo-NADH	70%	SPC 50%
16	Lipo-Nicotinamide	70%	SPC 50%
17	Lipo-GABA	70%	SPC 50%



Full Range Summary (Cont.)

18	Lipo-Quercetin	70%	SPC 50%
19	Lipo-Zn	Zinc 8%	Elemental mineral
20	Lipo-VB	70%	B Complex
21	Lipo-NAD ⁺	70%	SPC 50%
22	Lipo-VD3	0.125% / 0.25% / 0.50%	50K / 100K / 200K IU/g
23	Lipo-Mg (Mineral)	Mg 7%	Elemental mineral
24	Lipo-PQQ	70%	SPC 50%
25	Lipo-NR	70%	SPC 50%
26	Lipo-VK2	2000 PPM	Two presentations
27	Lipo-Mg (Extract)	70%	SPC 50%
28	Lipo-Fe	70%	SPC 50%
29	Lipo-Ergothiazine	70%	SPC 50%
30	Lipo-AKG	70%	SPC 50%
31	Lipo-Apigenin	70%	SPC 50%
32	Lipo-ALA	70%	SPC 50%



Applications and Next Steps

01

Active Selection

Identify the ingredient from our range with the active concentrations and SPC format that best fits your product matrix (capsule, liquid, powder).

02

Technical Validation

Request samples for compatibility testing, accelerated stability studies, and comparative bioavailability trials at your laboratory or CRO.

03

Formula Development

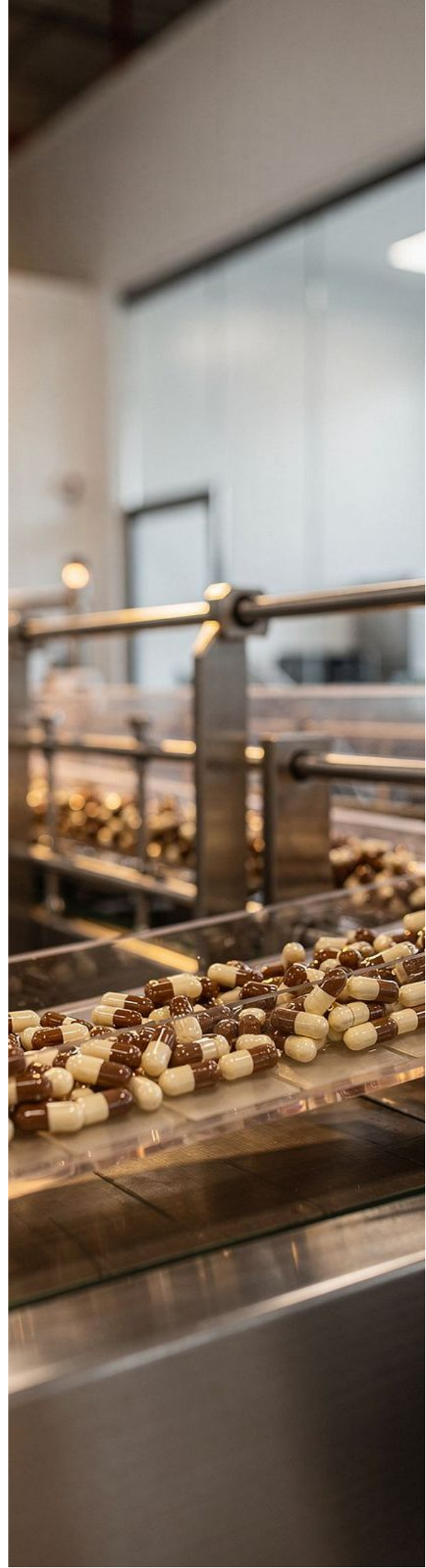
Our technical team will support you in integrating the liposomal ingredient into your final formula, adjusting dosage, excipients, and dosage form.

04

Scale-Up and Production

From pilot batches to industrial-scale production, with availability of certifications, COA, technical data sheets, and full regulatory documentation.

- ❏ To request samples, technical data sheets, or pricing information, contact our product team or access our technical portal.





Commercial Contact

INTABIOTECH, S.L.

Functional Ingredients and B2B Biotechnology

Company specialized in R&D, formulation, and supply of functional ingredients and biotechnological solutions for the food, feed, and nutritional supplementation industries.



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