

DELTATM

Dual Encapsulation Liposomal Technology

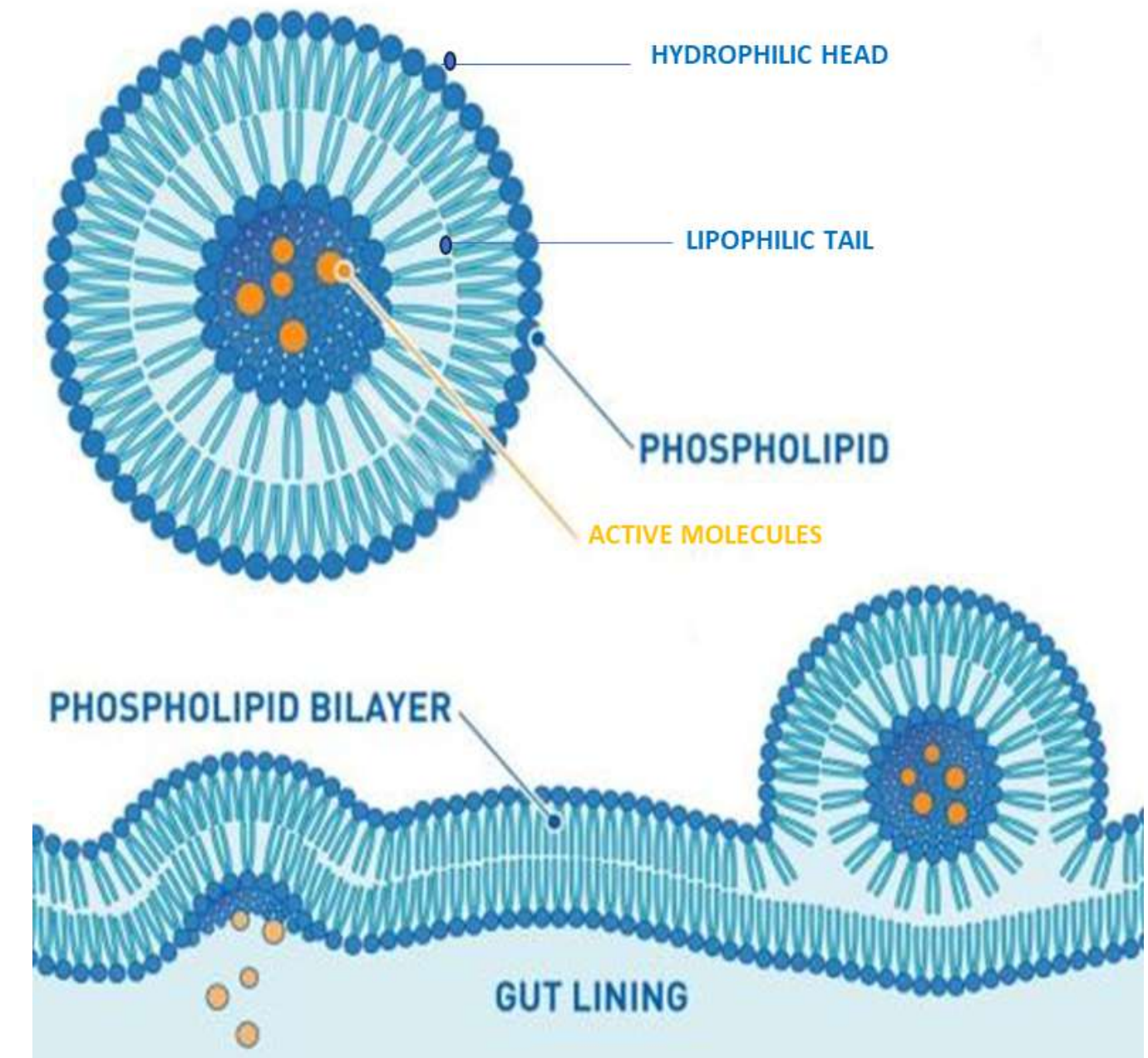
Technology, Structural Advantages & Product range



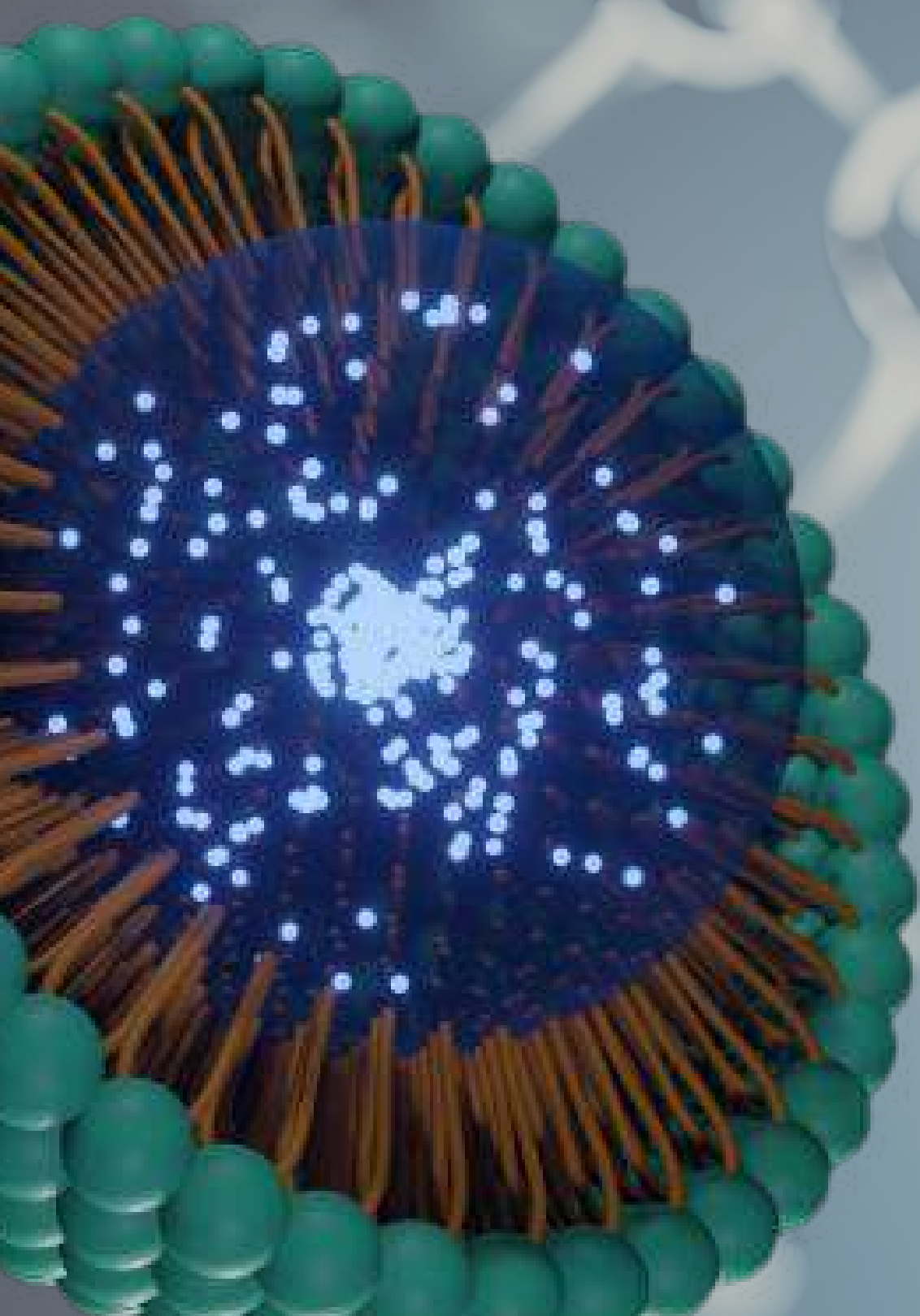
ELIYA
PHARMACEUTICALS

Liposomal Technology

- Liposomes are spherical lipid vesicles (usually 50–500 nm in diameter particle size) composed of one or more **lipid bilayers**, as a result of emulsifying natural or synthetic lipids in an aqueous medium.
- A liposomal version of biomolecules may well **mimic the body's own transport system**, enhancing uptake and delivery.
- Liposomal encapsulation of active biomolecules improves the **solubility, stability and bioavailability** and enhances the controlled release within the GI tract.
- It improves bioavailability, **targeted delivery**, increased circulation time, enhanced solubility, reduced toxicity and better stability.



Conventional Liposomes-Limitations



- Conventional liposomal products available in the market are in liquid or paste form, which may not have much stability since liposomes will **break very easily** in liquid formulations.
- Conventional liposomal forms are susceptible to the **hydrolysis of the ester bond** in both acidic and alkaline media, limiting physical stability and easily undergoing rapid metabolism.
- Phospholipids might also undergo **aggregation or flocculation** and fusion or coalescence, modifying the vesicle size, initiating the drug seepage, or harming the encapsulated biomolecules.
- Additionally, liposomes can be **broken down or oxidized**, unsaturated acyl chains can be **peroxidized**, and the glycerol-fatty acid ester bonds can be hydrolyzed.

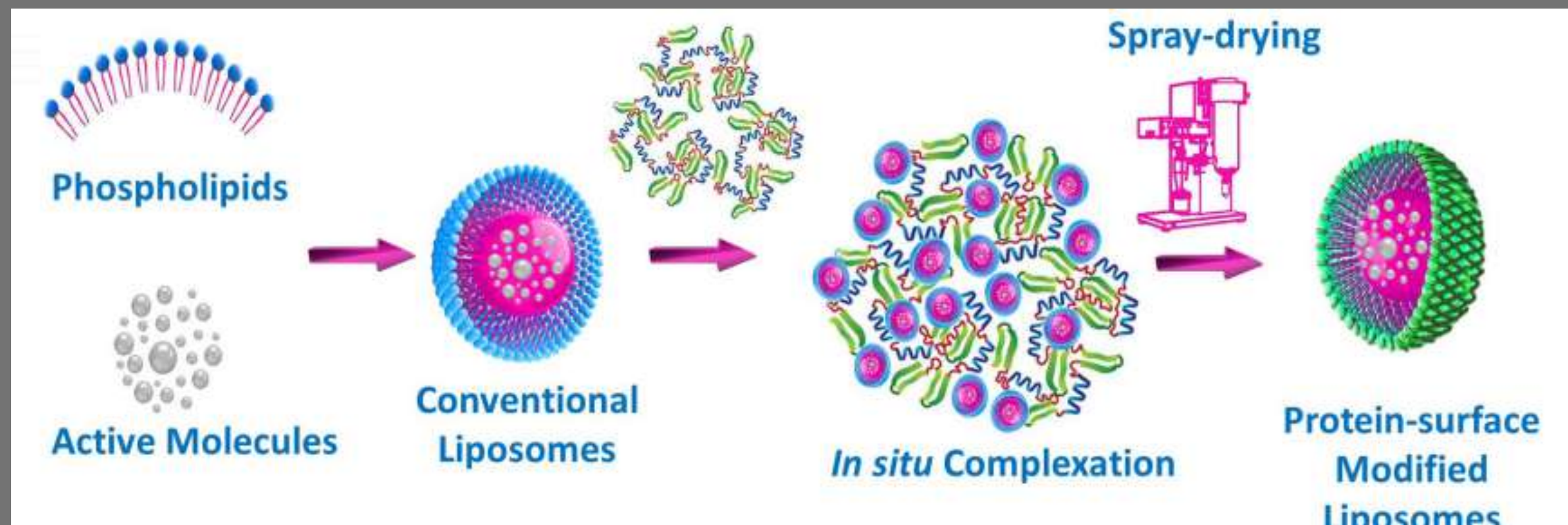
Introduction to DELT™ Technology

DELT™ (Dual Encapsulation Liposomal Technology) is an advanced delivery system that reinforces conventional liposomes with an additional plant-protein outer layer.

DELT™ provides:

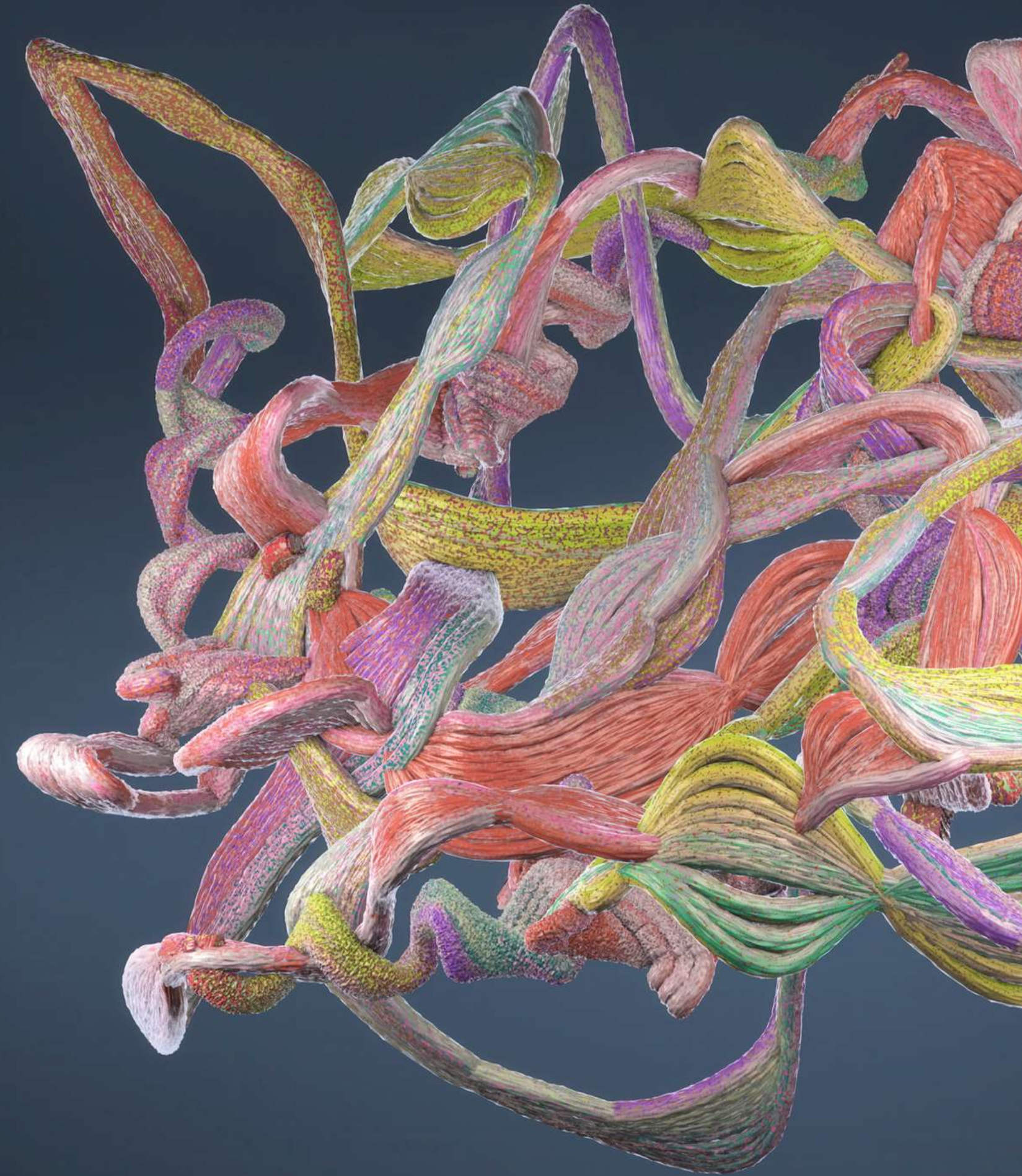
- Enhanced structural stability
- Improved resistance to pH, heat, and stress
- Controlled gastrointestinal release.
- Higher bioavailability

Plant proteins bind through cationic–anionic interactions, reinforcing the liposome and improving permeability through the gut barrier.



Why plant proteins?

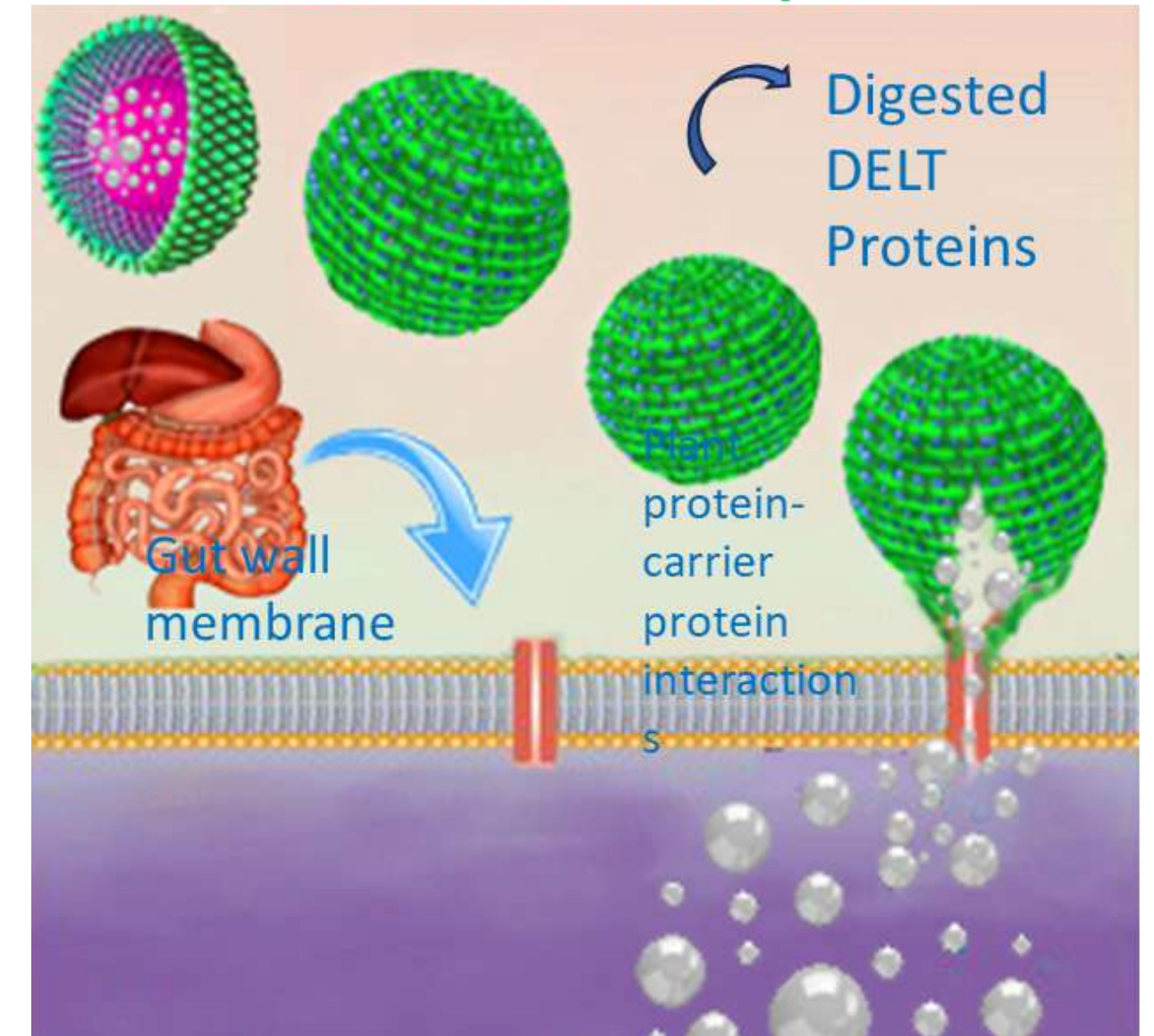
- The plant protein has a high surface area and higher emulsification ability that easily traps water and oil due to the amphiphilic nature of the protein.
- Plant protein maintains the equilibrium between hydrophilicity and lipophilicity to increase the bioavailability of active molecules.
- Plant proteins can act as a biological functional molecules by digesting to smaller proteins which can be absorbed through the intestinal membrane.
- The digested plant proteins can enhance the bioavailability by interacting with the carrier proteins in intestinal membrane.
- Because of this, this surface modification improves stability, sustained release, bioavailability and efficacy.



Mode of Action

- The liposomes cross over the gut barrier by two process: **Passive transport** and **active transport (Endocytosis)**.
- Passive transport occurs from high concentration to low concentration (diffusion).
- **Endocytosis:** The active transport will enhance by the **plant protein-carrier protein interactions**.

The Process of Endocytosis



The DELT™ Product Range

Vitamins

- DELT™ Liposomal Vitamin C Powder
- DELT™ Liposomal Vitamin B12 Powder
- DELT™ Liposomal Vitamin B1 Powder
- DELT™ Liposomal Vitamin B2 Powder
- DELT™ Liposomal Vitamin B3 Powder
- DELT™ Liposomal Vitamin B5 Powder
- DELT™ Liposomal Vitamin B6 Powder
- DELT™ Liposomal Vitamin B9 Powder

- DELT™ Liposomal Vitamin B Complex Blend
- DELT™ Bioactive Multivitamin Powder
- DELT™ Liposomal Vitamin K2D3 Powder
- DELT™ Liposomal Vitamin K27 Powder
- DELT™ Liposomal Vitamin D3 Powder
- DELT™ Liposomal Veg D3 Powder
- DELT™ Liposomal D Biotin Powder
- DELT™ Liposomal Vitamin E Powder

The DELT™ Product Range

Minerals

- DELT™ Liposomal Ferric Pyrophosphate Powder
- DELT™ Liposomal Ferrous Fumarate Powder
- DELT™ Liposomal Ferrous Bisglycinate Powder
- DELT™ Liposomal Ferrous Sulphate Powder
- DELT™ Liposomal Zinc Picolinate Powder
- DELT™ Liposomal Zinc Oxide Powder
- DELT™ Liposomal Zinc Gluconate Powder
- DELT™ Liposomal Zinc Bisglycinate Powder
- DELT™ Liposomal Magnesium Bisglycinate Powder
- DELT™ Liposomal Magnesium Oxide Powder
- DELT™ Liposomal Magnesium Hydroxide Powder
- DELT™ Liposomal Magnesium Citrate Powder
- DELT™ Liposomal Magnesium Mix Powder
- DELT™ Liposomal Magnesium Complex Powder
- DELT™ Liposomal Calcium Citrate Powder
- DELT™ Liposomal Ferrous Ascorbate Powder
- DELT™ Liposomal Vitamin C Zinc Powder

The DELT™ Product Range

Herbal Extracts

- DELT™ Liposomal Curcumin Powder
- DELT™ Liposomal Curcuminoids Powder
- DELT™ Liposomal Silymarin Powder
- DELT™ Liposomal Chrysin Powder
- DELT™ Liposomal Quercetin Powder
- DELT™ Liposomal Berberine Powder
- DELT™ Liposomal Moringa Powder
- DELT™ Liposomal Resveratrol Powder



The DELT™ Product Range

Others

- DELT™ Liposomal Alpha Lipoic Acid Powder
- DELT™ Liposomal Glutathione Powder
- DELT™ Liposomal NAD⁺ Powder
- DELT™ Liposomal NMN Powder
- DELT™ Liposomal Coenzyme Q10 Powder
- DELT™ Liposomal PEA Powder
- DELT™ Liposomal ORS Powder
- DELT™ Liposomal Alpha Lipoic Acid + B Complex Powder
- DELT™ Liposomal NADH Powder
- DELT™ Liposomal Omega Powder

The DELT™ Solutions for Everyday Health Needs



Cognitive Function & Mental Clarity

DELT™ Liposomal NAD+ Powder

DELT™ Liposomal NADH Powder

DELT™ Liposomal NMN Powder

DELT™ Liposomal Vitamin B Complex Blend

DELT™ Liposomal Coenzyme Q10 Powder

DELT™ Liposomal Melatonin Powder

DELT™ Liposomal Nicotinamide Riboside Powder

DELT™ Liposomal Vitamin B1 Powder

DELT™ Liposomal Vitamin B2 Powder

DELT™ Liposomal Vitamin B3 Powder

DELT™ Liposomal Vitamin B6 Powder

DELT™ Liposomal Vitamin B9 Powder

DELT™ Liposomal Vitamin B12 Powder

The DELT™ Solutions for Everyday Health Needs



Skin health

DELT™ Liposomal Vitamin C Powder
DELT™ Liposomal Glutathione Powder
DELT™ Liposomal Hyaluronic Acid Powder
DELT™ Liposomal Alpha Lipoic Acid Powder
DELT™ Liposomal Resveratrol Powder
DELT™ Liposomal Chrysin Powder
DELT™ Liposomal Moringa Powder
DELT™ Liposomal Vitamin E Powder



Wellness & General Health

DELT™ Liposomal Moringa Powder
DELT™ Liposomal Omega Powder
DELT™ Liposomal Multivitamin Powder
DELT™ Liposomal Vitamin C Zinc Powder
DELT™ Liposomal Calcium Citrate Powder
DELT™ Liposomal Magnesium Complex Powder
DELT™ Liposomal Magnesium Mix Powder
DELT™ Liposomal Magnesium + Vitamin Blend
DELT™ Liposomal Veg D3 Powder
DELT™ Liposomal Vitamin C with Inulin Powder

The DELT™ Solutions for Everyday Health Needs



Immunity support

DELT™ Liposomal Vitamin C Powder
DELT™ Liposomal Glutathione Powder
DELT™ Liposomal Hyaluronic Acid Powder
DELT™ Liposomal Alpha Lipoic Acid Powder
DELT™ Liposomal Resveratrol Powder
DELT™ Liposomal Chrysin Powder
DELT™ Liposomal Moringa Powder
DELT™ Liposomal Vitamin E Powder



Anti-ageing

DELT™ Liposomal Moringa Powder
DELT™ Liposomal Omega Powder
DELT™ Liposomal Multivitamin Powder
DELT™ Liposomal Vitamin C Zinc Powder
DELT™ Liposomal Calcium Citrate Powder
DELT™ Liposomal Magnesium Complex Powder
DELT™ Liposomal Magnesium Mix Powder
DELT™ Liposomal Magnesium + Vitamin Blend
DELT™ Liposomal Veg D3 Powder
DELT™ Liposomal Vitamin C with Inulin Powder

The DELT™ Solutions for Everyday Health Needs



Metabolic
health/Antidiabetic



Stress, Mood & Sleep

DELT™ Antidiabetic Formulation

DELT™ Liposomal Berberine Powder

DELT™ Liposomal Nicotinamide Riboside Powder

DELT™ Liposomal Magnesium Powder

DELT™ Liposomal B-Complex and Biotin

DELT™ Liposomal Melatonin Powder

DELT™ Liposomal PEA Powder

DELT™ Liposomal Chrysin Powder

DELT™ Liposomal Magnesium + Vitamin Blend

DELT™ Liposomal Coenzyme Q10 Powder

The DELT™ Solutions for Everyday Health Needs



Energy & Metabolism

DELT™ Liposomal Ferrous Fumarate Powder
DELT™ Liposomal Ferrous Bisglycinate Powder
DELT™ Liposomal Ferrous Sulphate Powder
DELT™ Liposomal Ferric Pyrophosphate Powder
DELT™ Liposomal Ferrous Ascorbate Powder
DELT™ Liposomal Magnesium Bisglycinate Powder
DELT™ Liposomal Magnesium Oxide Powder
DELT™ Liposomal Magnesium Hydroxide Powder
DELT™ Liposomal Magnesium Citrate Powder



Cardiovascular Health

DELT™ Liposomal Coenzyme Q10 Powder
DELT™ Liposomal Vitamin K2D3 Powder
DELT™ Liposomal Resveratrol Powder
DELT™ Liposomal Omega Powder
DELT™ Liposomal Magnesium Powder

DELT™ Structural Integrity – Demonstration with Berberine

DELT™ (Dual Encapsulated Liposomal Technology) features a dual-layer system with plant protein stabilization, designed to enhance structural integrity, stability, and controlled release.

To demonstrate this enhanced structural robustness, a comparative study was conducted between:

DELT™ Liposomal Berberine
and
Conventional (Normal) Liposomal Berberine

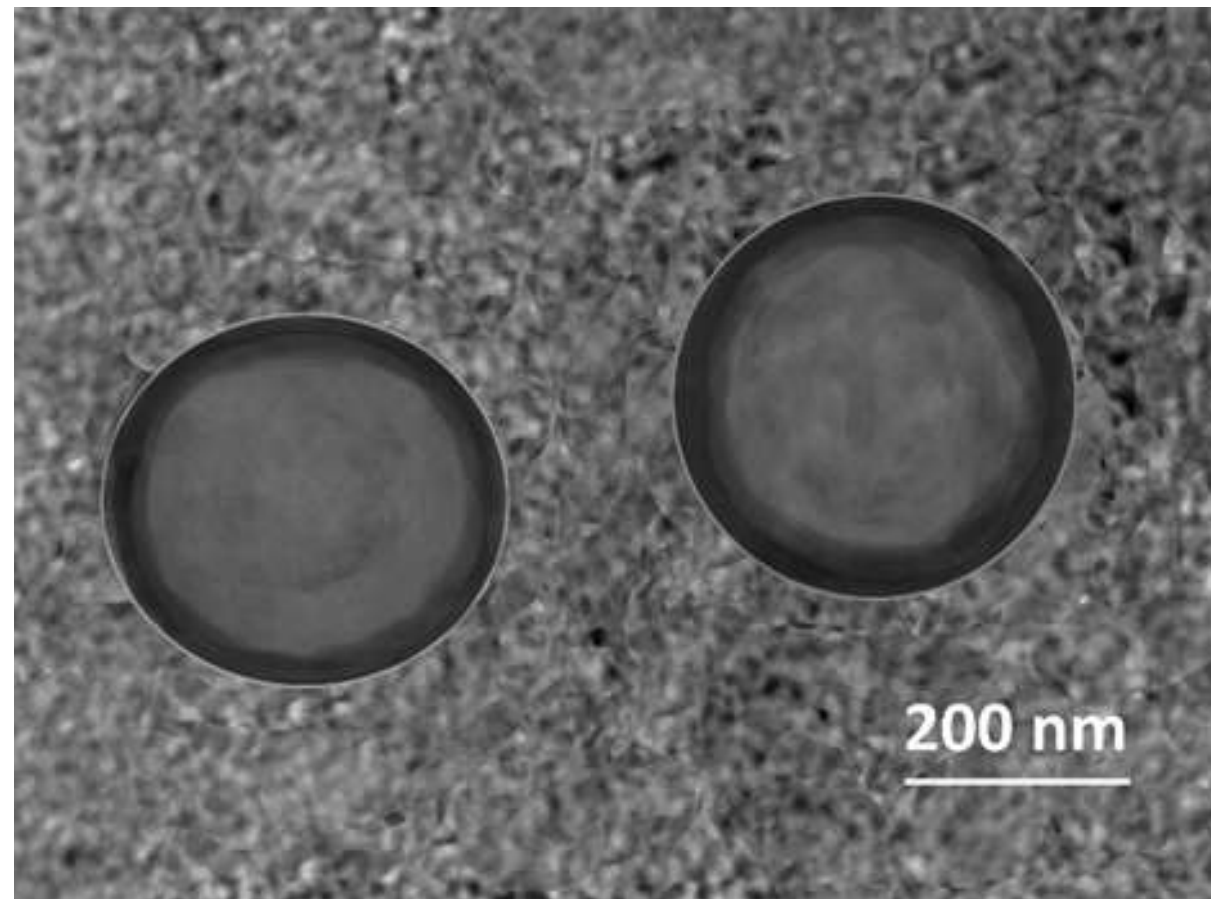
The following data highlights the structural and physicochemical differences between the two systems.



Transmission Electron Microscopy (TEM)

DELT Berberine

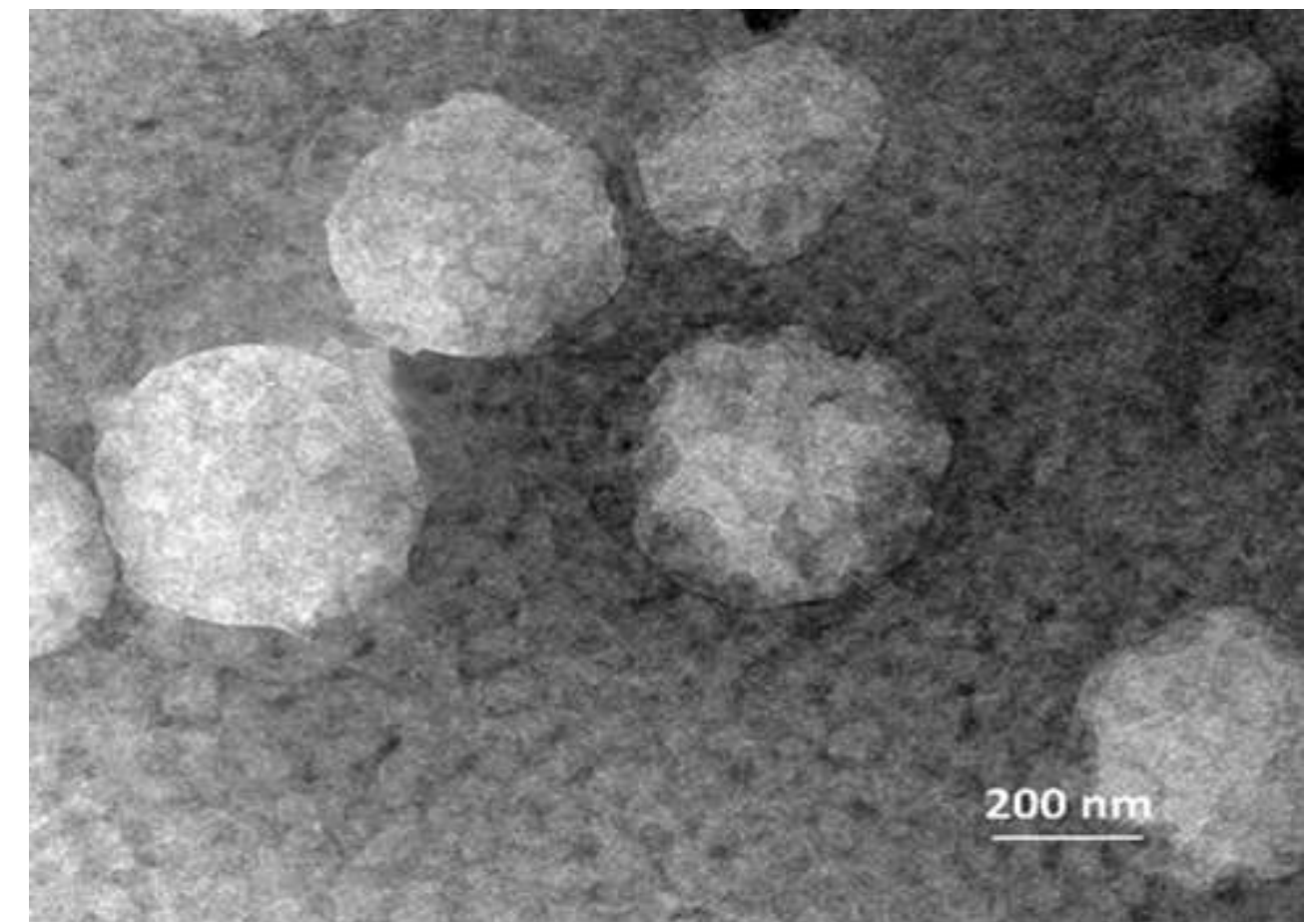
- Multilamellar/core-shell morphology
- Distinct inner lipid bilayer and outer protein sheath
- High structural definition



TEM image of DELT Berberine

Conventional Liposomal Berberine

- Mostly unilamellar vesicles
- Reduced membrane density
- Lower morphological stability

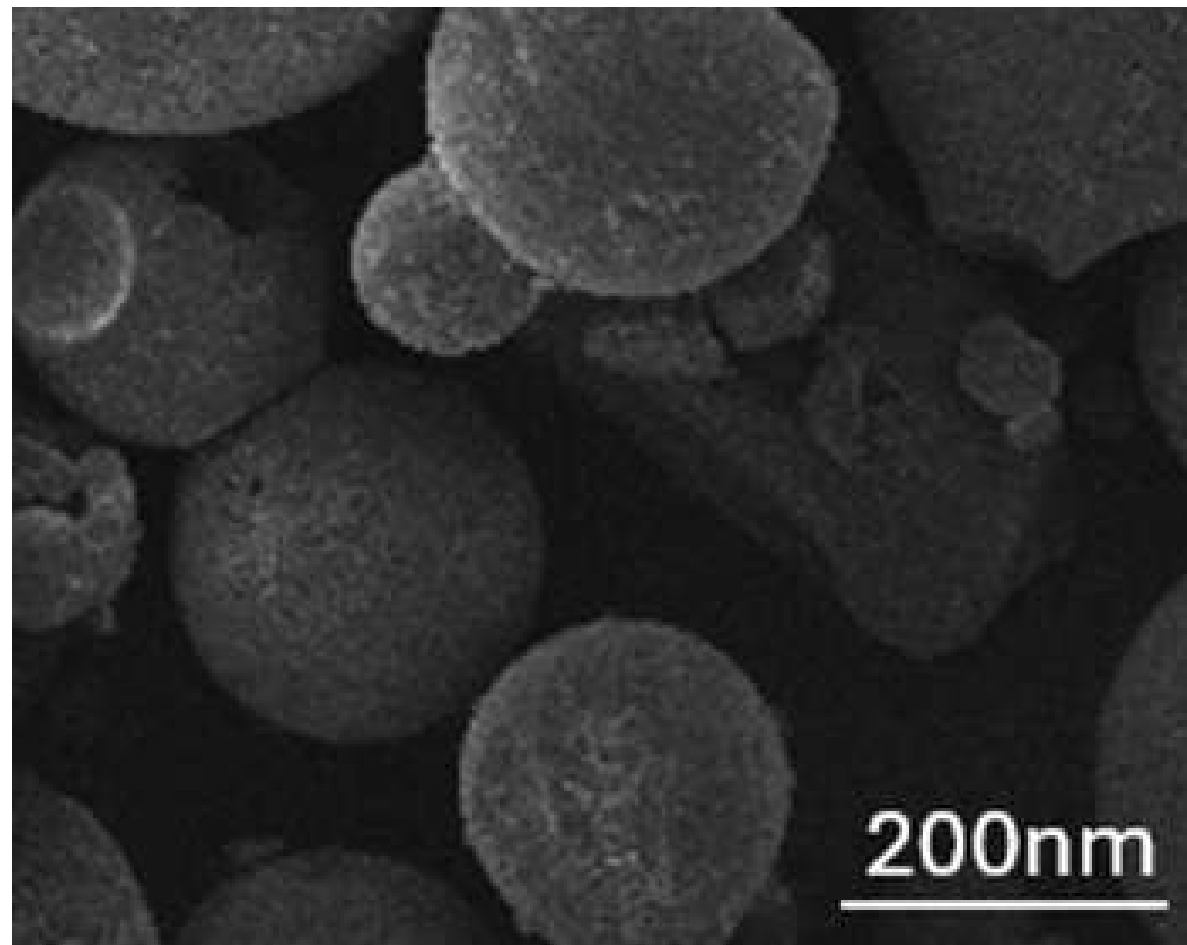


TEM image of normal liposomal Berberine

Scanning Electron Microscopy (SEM)

DELT Berberine

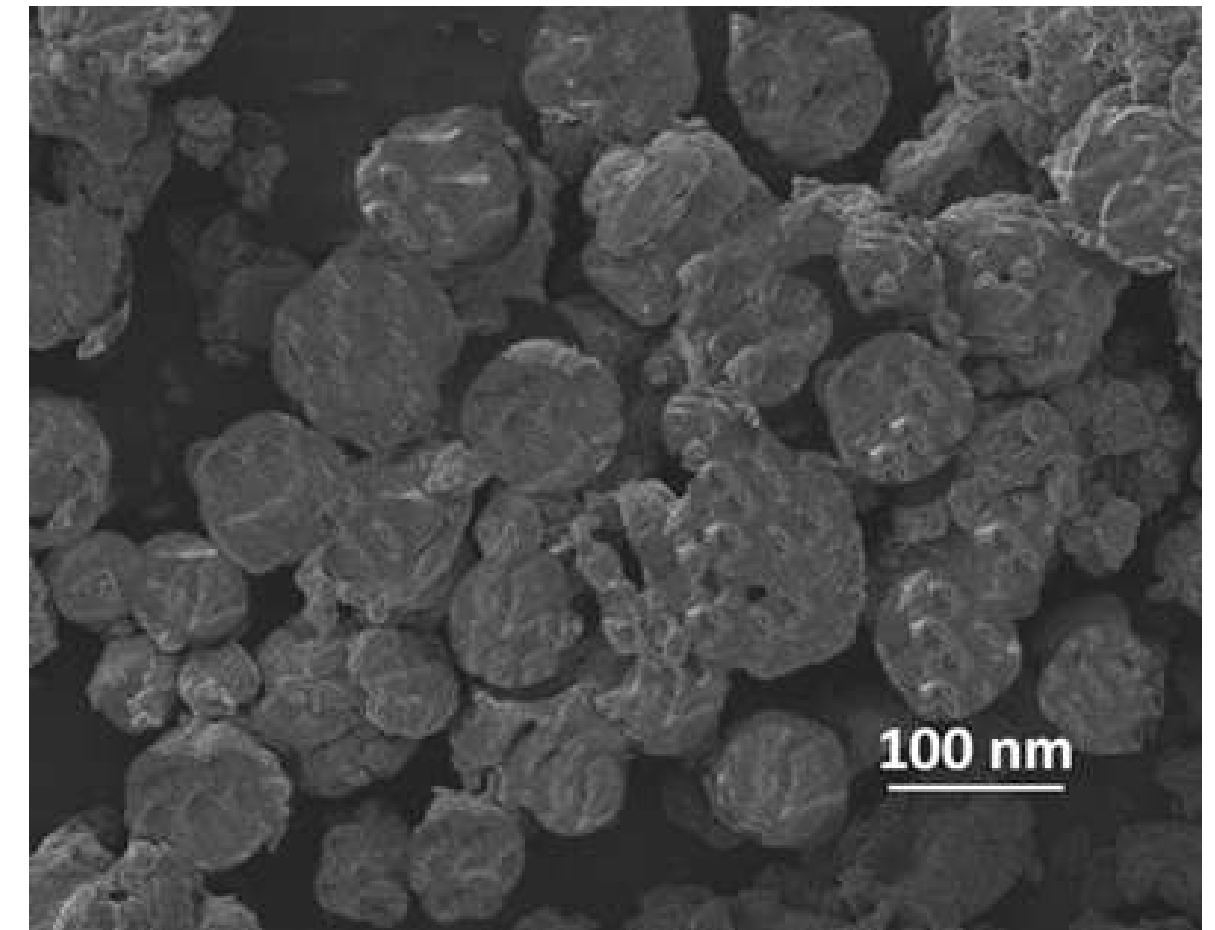
- Textured outer surface confirming protein coating
- Intact spherical particles without cracks
- No evidence of fusion or agglomeration



SEM image of DELT liposomal berberine

Conventional Liposomal Berberine

- Smooth, less complex surfaces
- Higher incidence of collapse or deformation

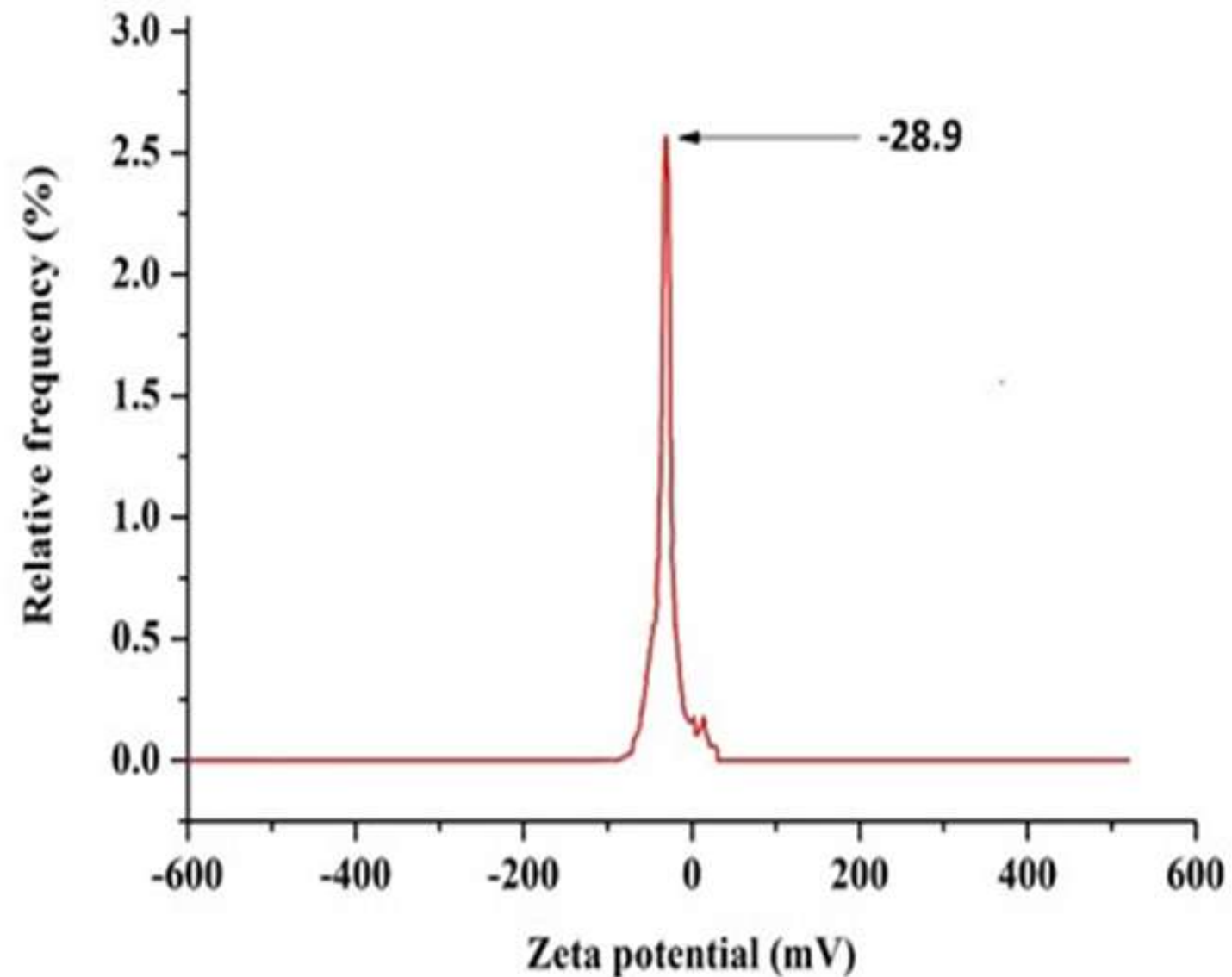


SEM image of normal liposomal berberine

Zeta Potential Analysis

DELT Berberine

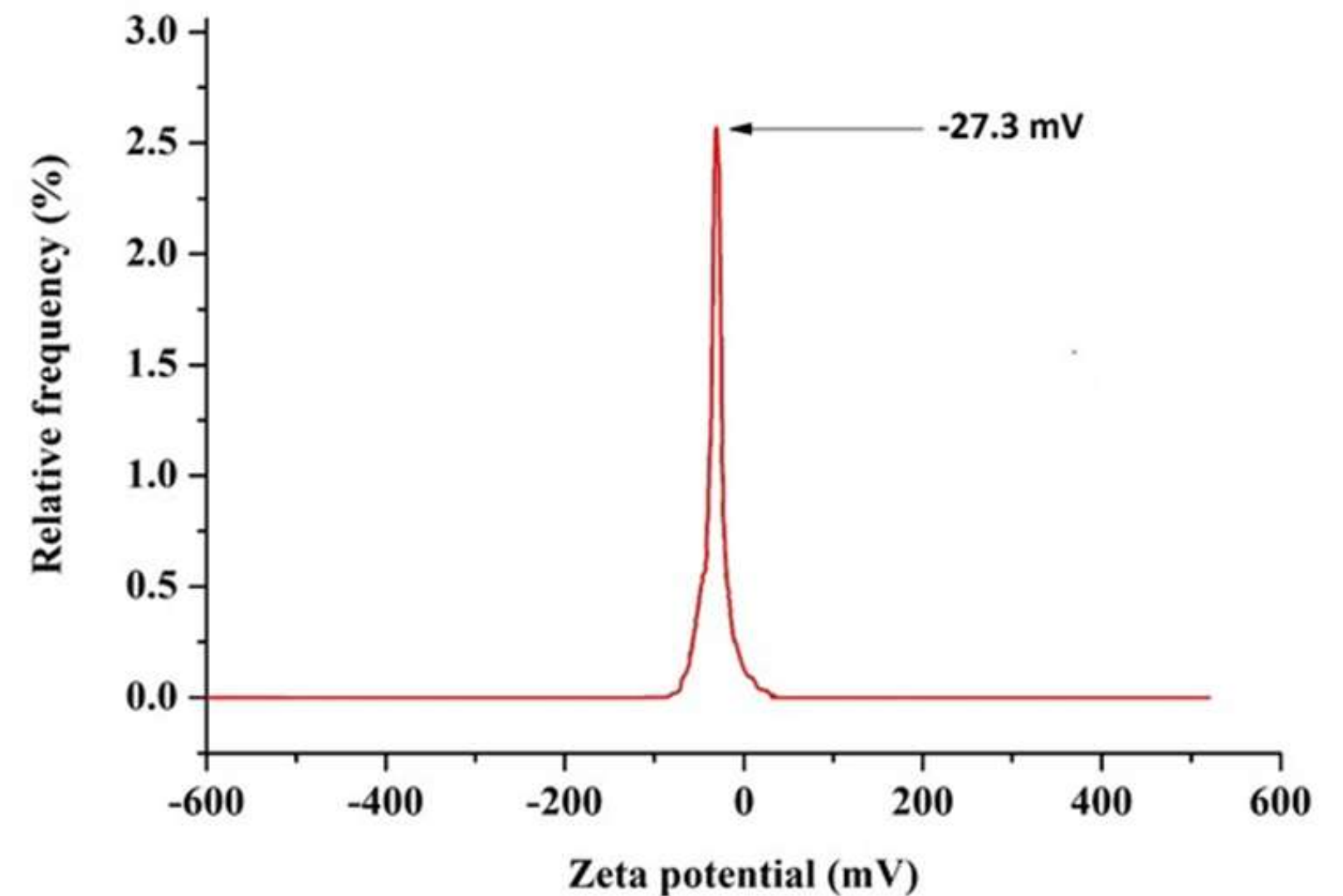
- Zeta potential: -28.9 mV
- High electrostatic repulsion $\rightarrow$ reduced aggregation



Zeta Potential of DELT berberine

Conventional Liposomal Berberine

- Zeta potential : -27.3 mV
- Smooth, less complex surfaces
- Higher incidence of collapse or deformation

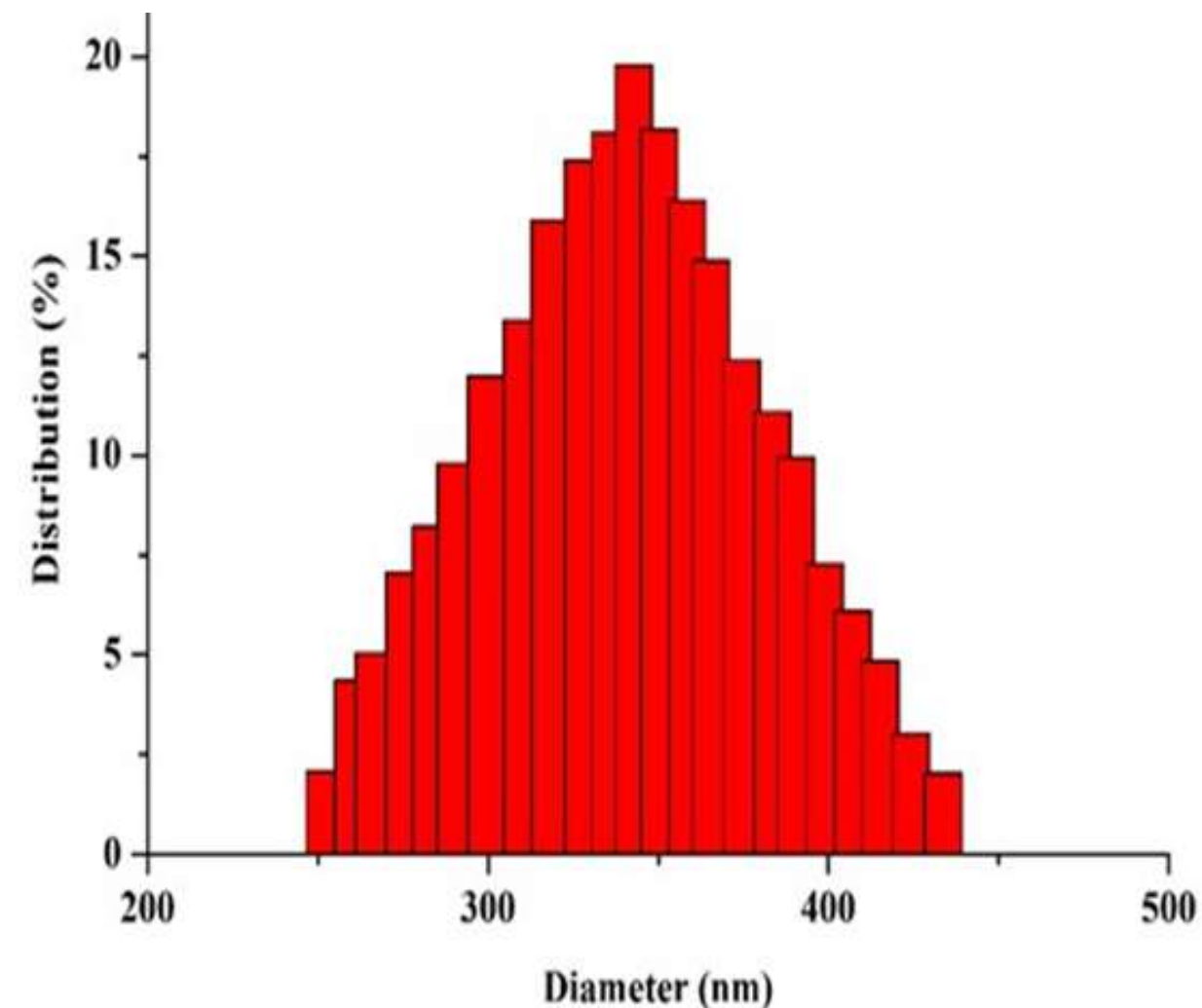


Zeta Potential of normal liposomal berberine

Dynamic Light Scattering (DLS) Size Profile

DELT Berberine

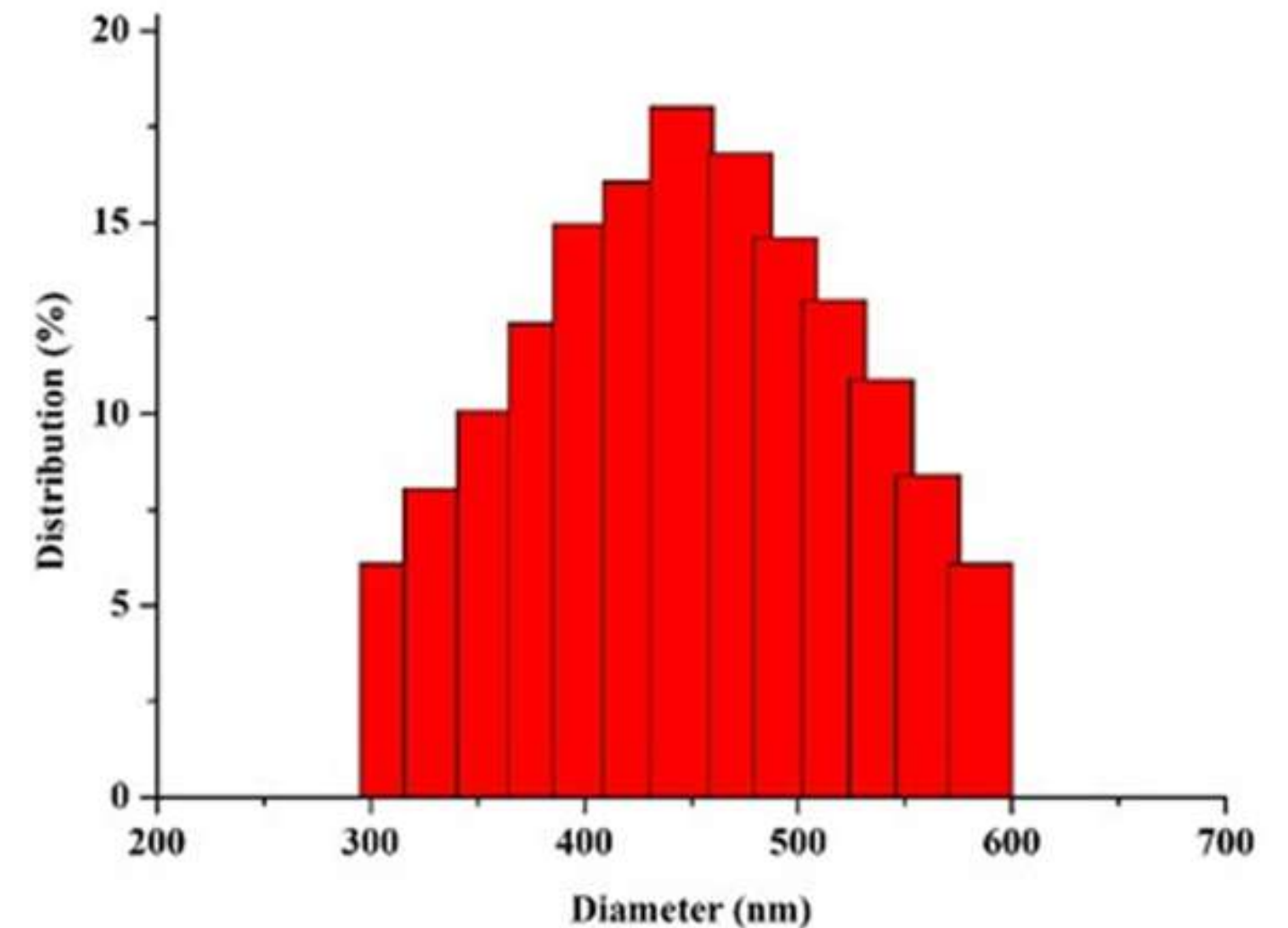
- Mean diameter: ~342 nm
- Narrow polydispersity index → uniform vesicle population
- Indicates strong internal and surface stability



DLS plot of DELT Berberine

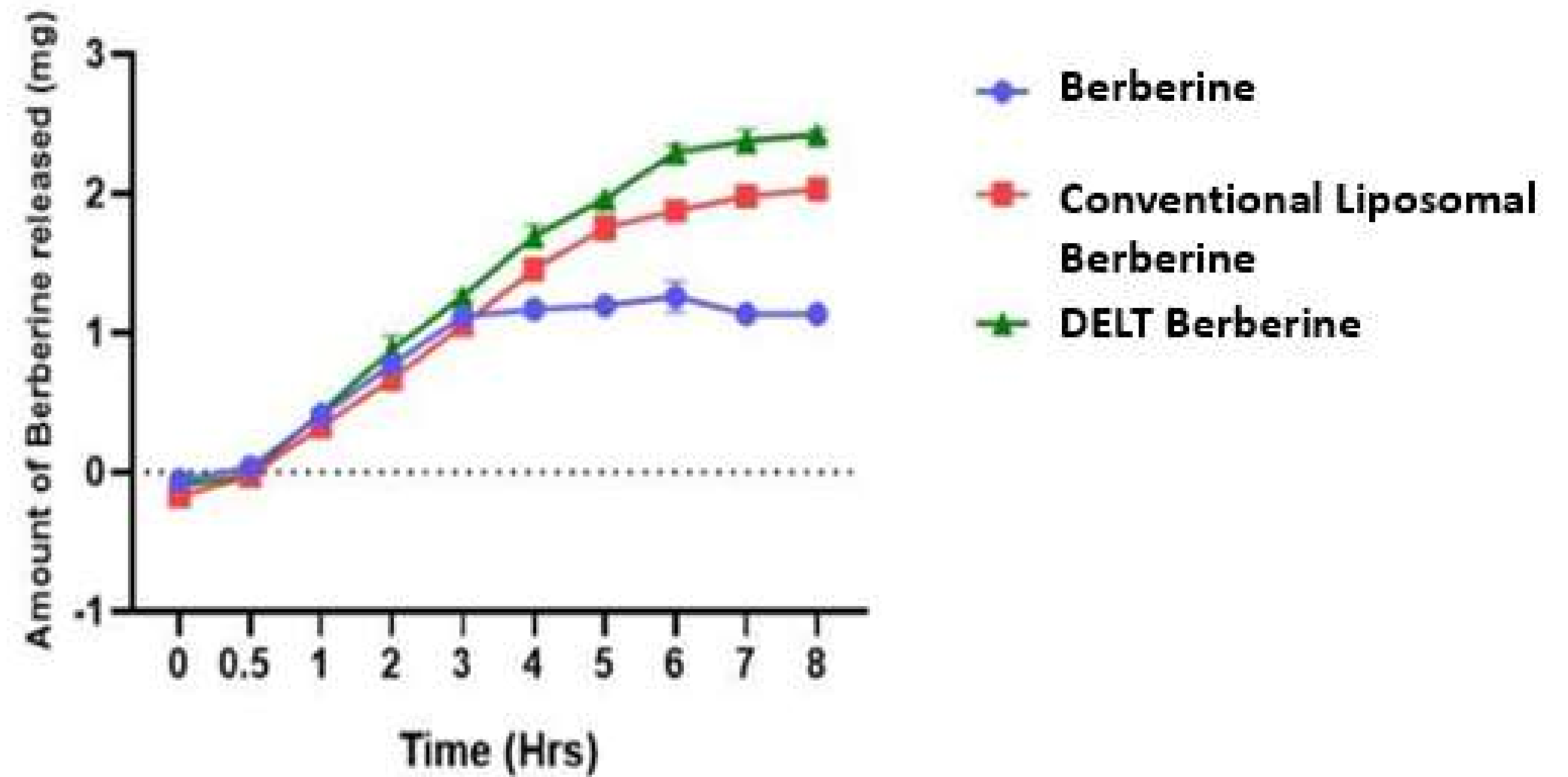
Conventional Liposomal Berberine

- Larger mean diameter: ~445 nm
- Higher variability → lower colloidal stability



DLS plot of normal liposomal berberine

In Vitro release study



The release profile of berberine in the liposomal formulations compared to the unformulated control, at pH 7.4. Owing to the poor solubility of berberine, the cumulative release of unformulated berberine and conventional liposomal berberine are less in comparison with DELT Berberine.

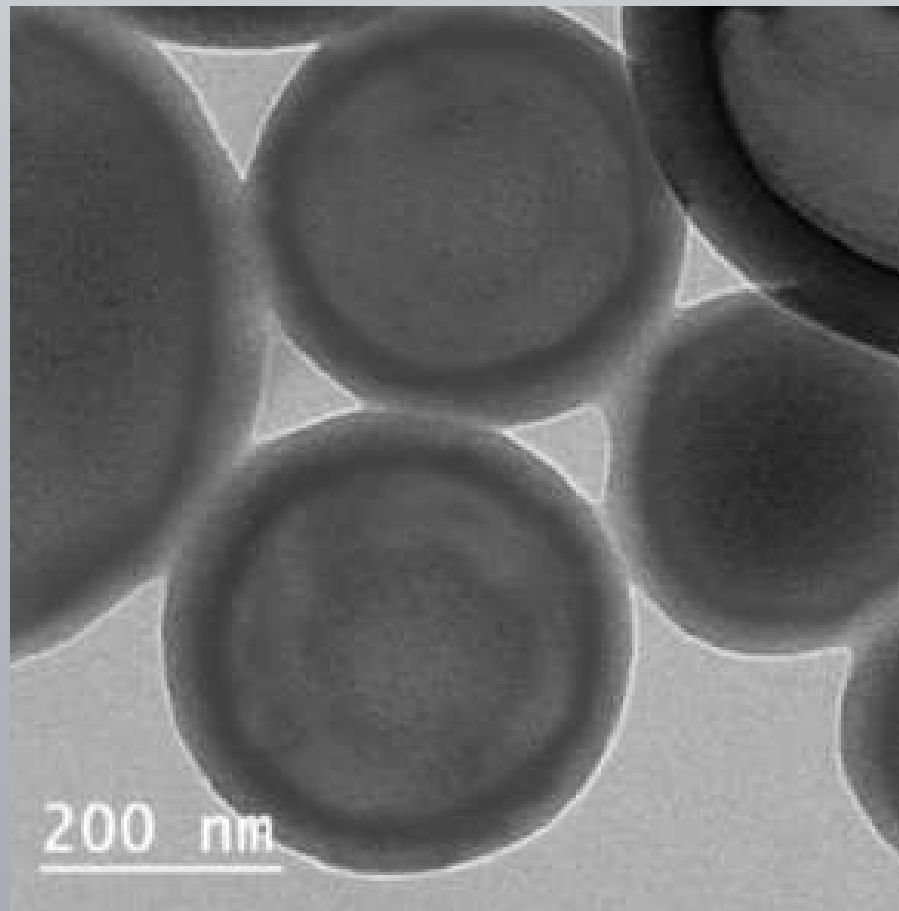
DELT **Vitamin C** – Structural Characterization

Characterization confirms:

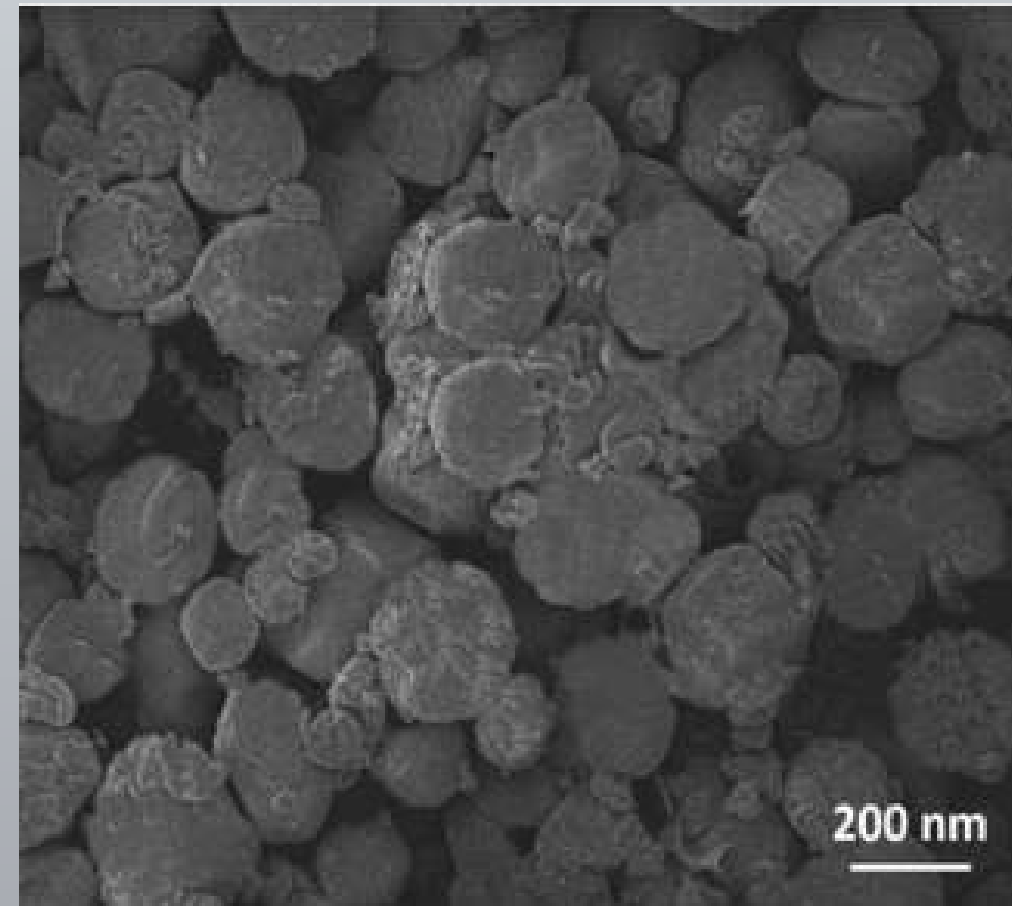
- **Spherical, well-defined liposomes (SEM & TEM)**
- **Particle size in nano range (~200–300 nm)**
- **High encapsulation efficiency**

These results indicate:

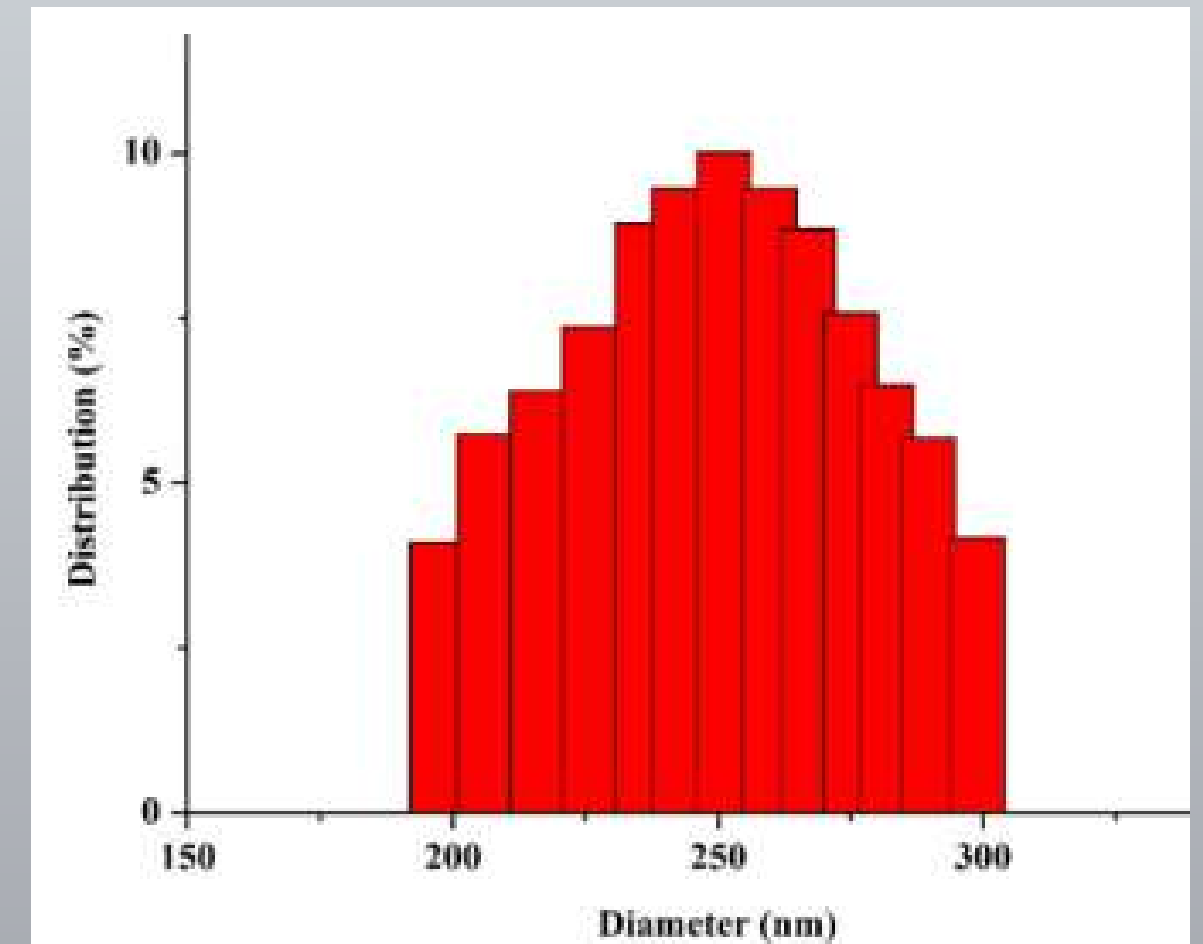
Enhanced structural integrity and dispersion stability.



TEM image



SEM image



DLS plot

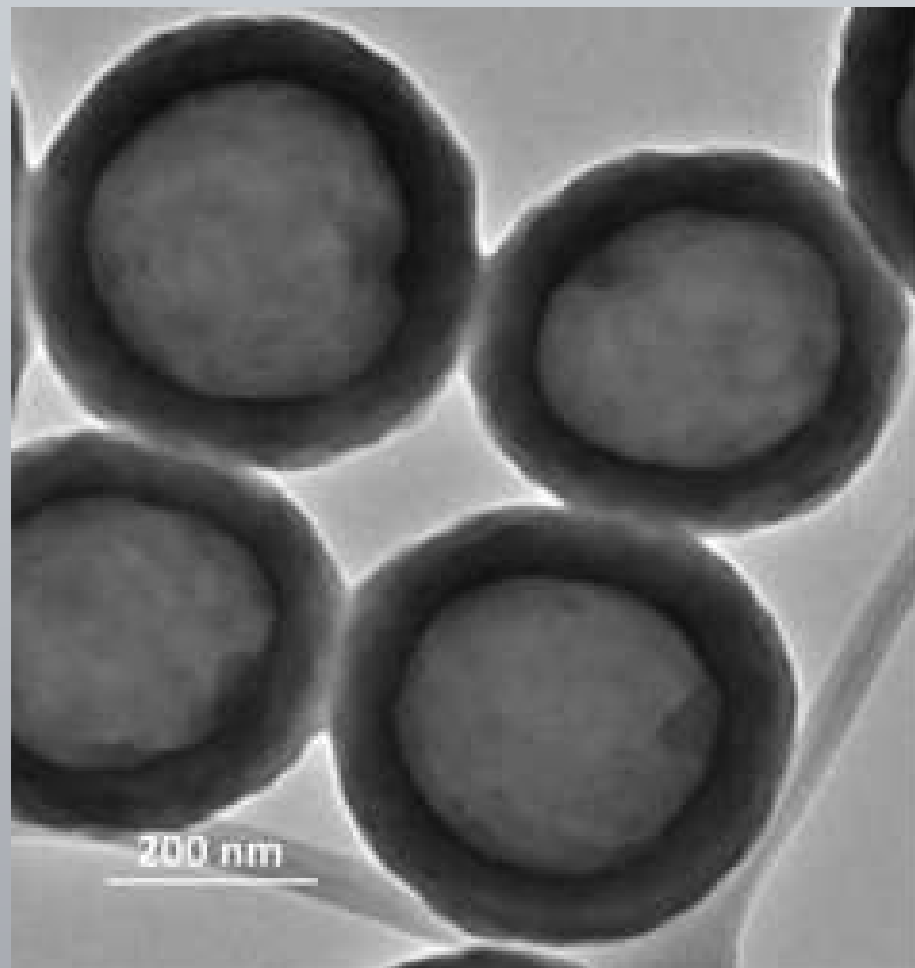
DELT **Glutathione** – Structural Characterization

Observations:

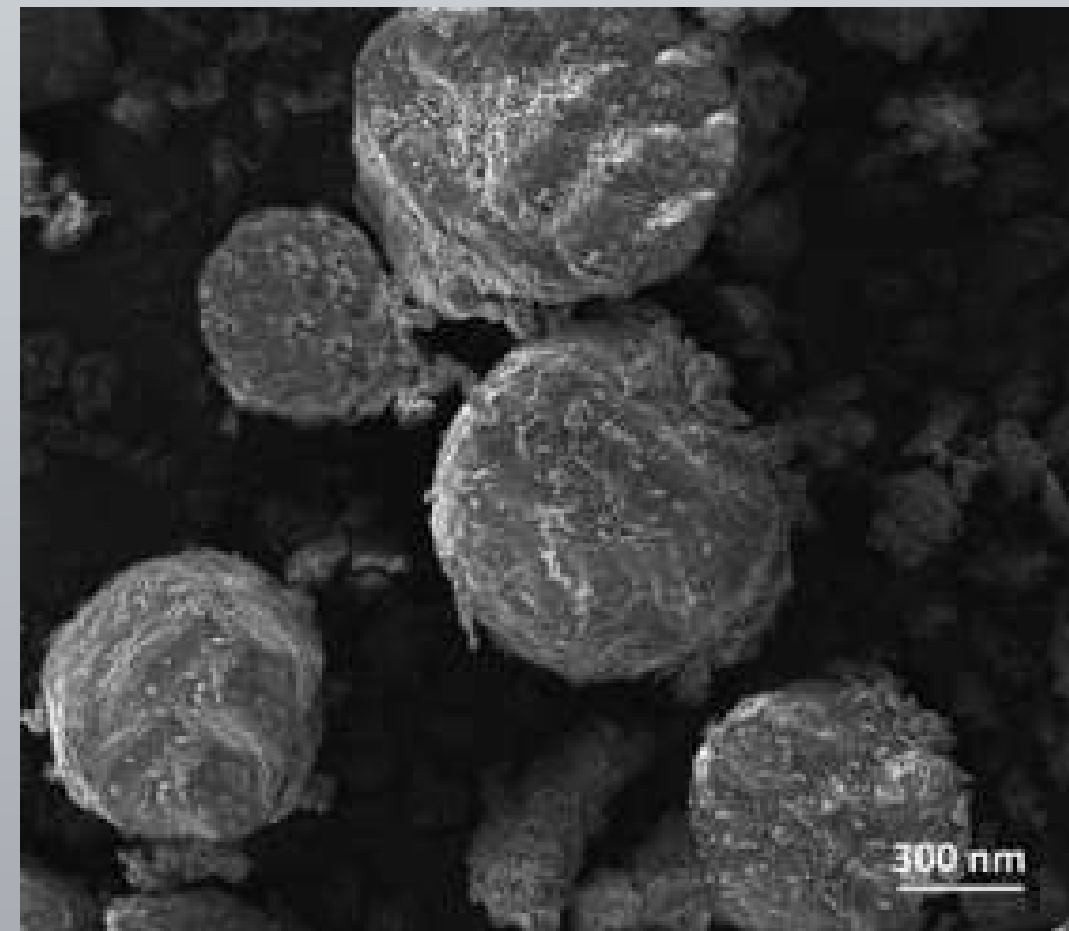
- **Uniform spherical liposomes**
- **Visible dual-layer morphology**
- **Nano-sized particle distribution**

Indicates:

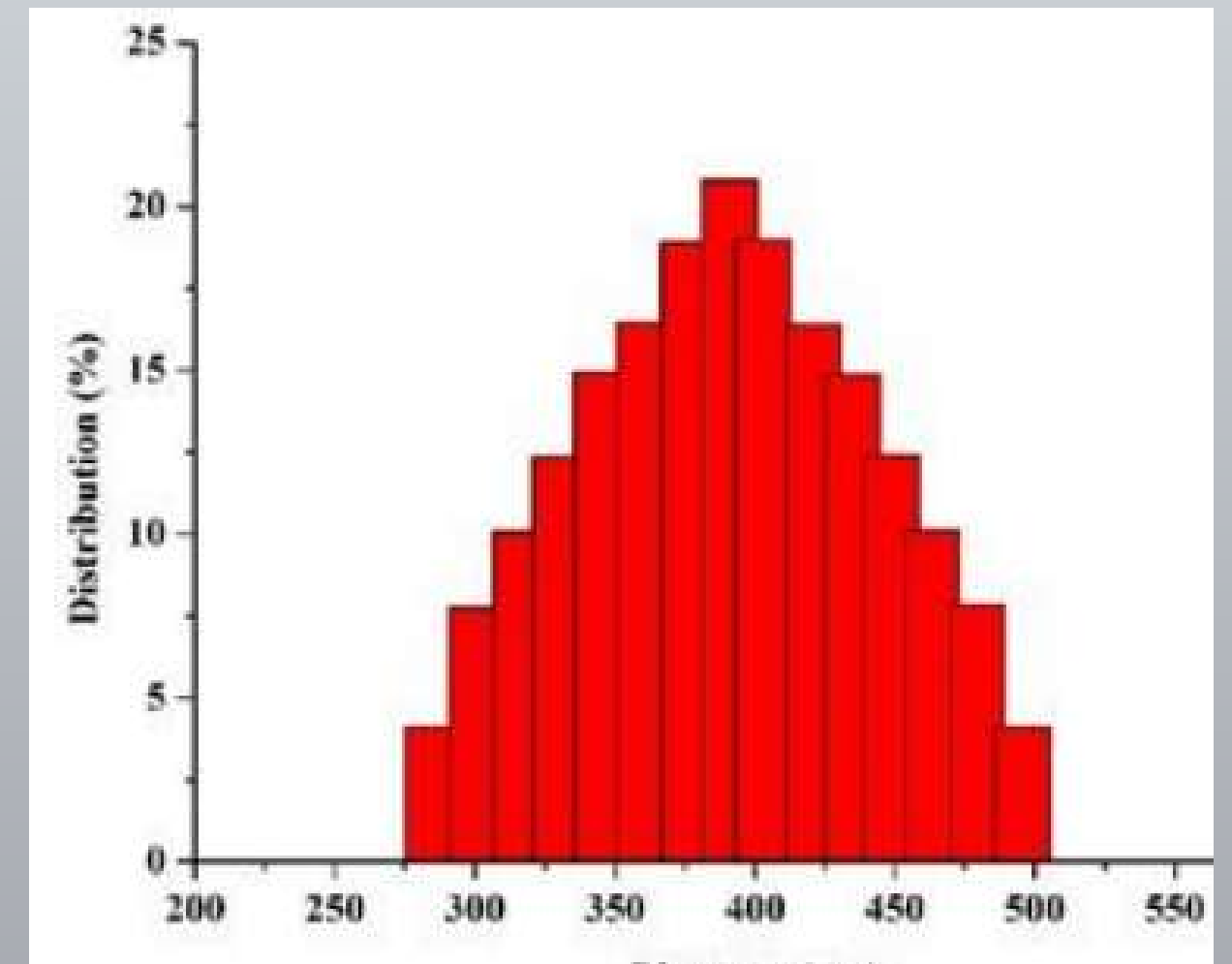
Robust encapsulation and improved structural protection.



TEM image



SEM image



DLS plot

Structural Summary – Vitamin C & Glutathione

Across both actives:

- ✓ Uniform morphology
- ✓ Nano-sized particle distribution
- ✓ Stable electrostatic surface charge
- ✓ No major aggregation observed

Scientific Validation via Independent External Laboratory

To further validate DELT™ structural integrity, samples were submitted to an independent external laboratory- **Measurlabs, Finland** for advanced characterization.

Actives evaluated:

- DELT Liposomal Vitamin C
- DELT Liposomal Glutathione

Testing included:

- Negative staining
- Transmission Electron Microscopy (TEM)

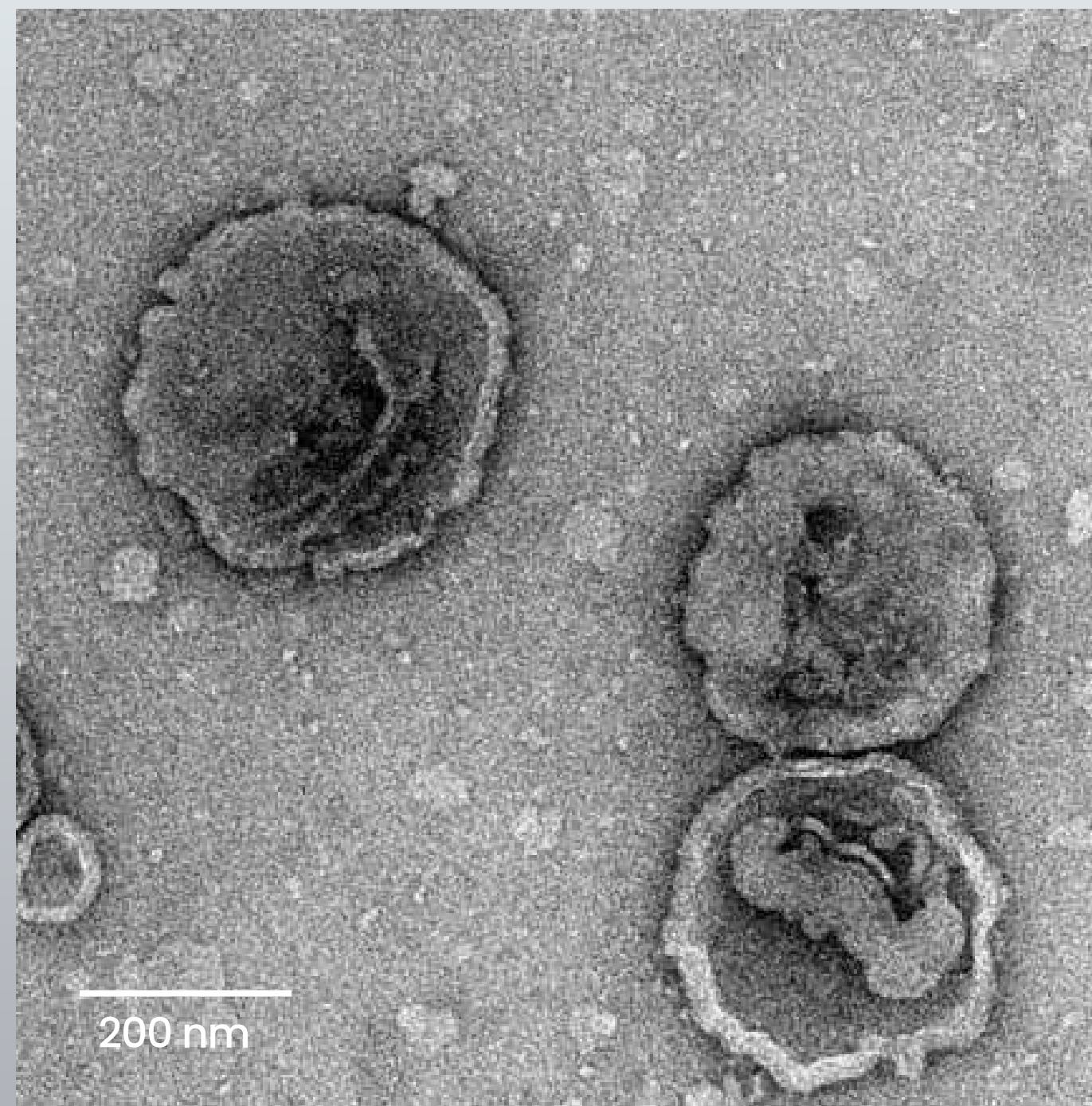


Measurlabs

External TEM Results – DELT **Glutathione**

Observations

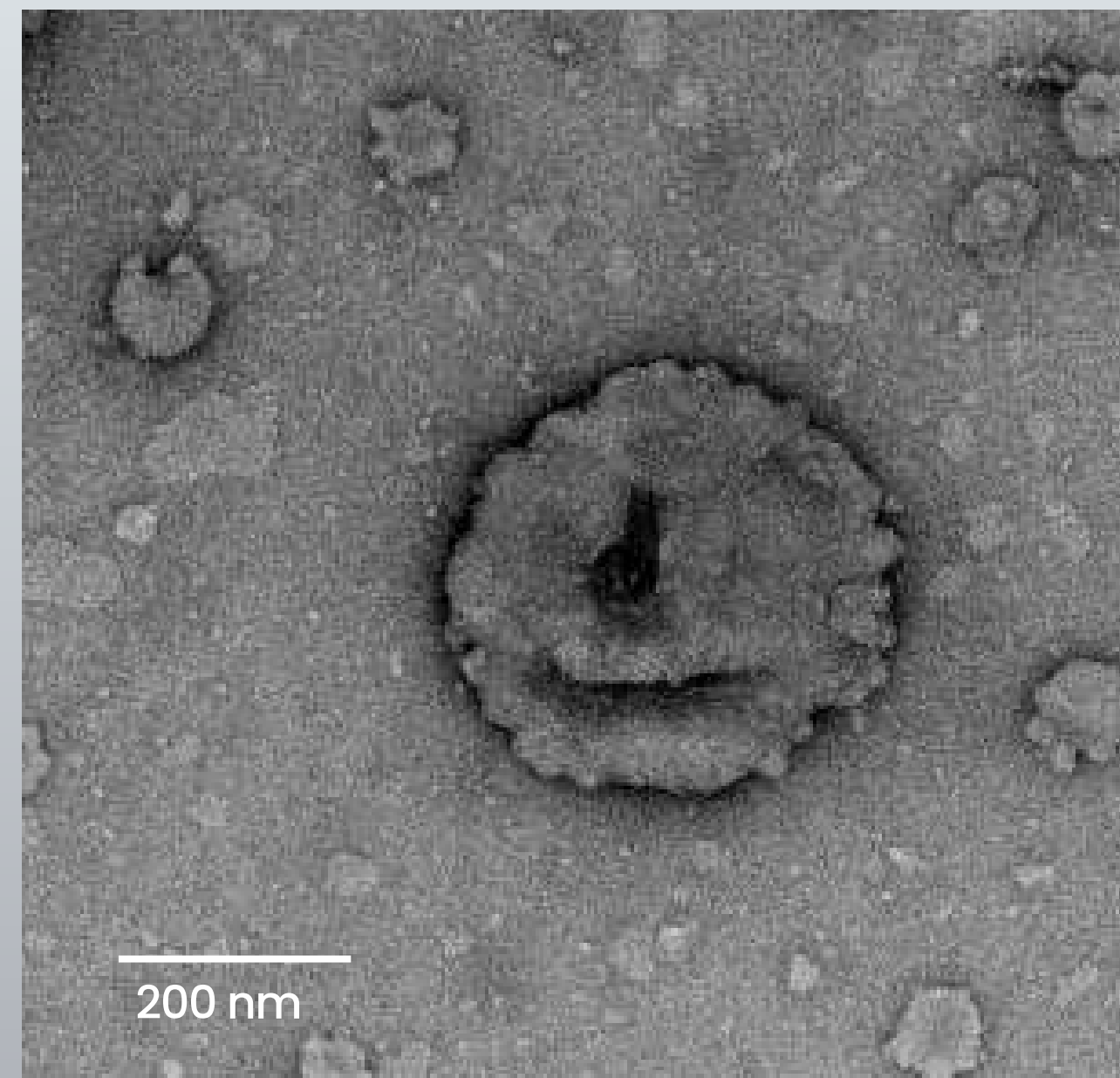
- Presence of spherical liposomal vesicles
- Particle size range: approximately 100–400 nm
- Internal density indicative of loaded liposomes
- Morphology consistent with encapsulated structures



External TEM Results – DELT Vitamin C

Observations

- Presence of well-defined spherical liposomal vesicles
- Particle size observed within the nano range (~100–400 nm)
- Distinct internal contrast suggesting successful encapsulation
- Morphology consistent with stable, structured liposomal systems



Conclusion from Independent Laboratory

The external TEM analysis confirms:

- ✓ Formation of spherical liposomal vesicles
- ✓ Nano-scale particle size distribution
- ✓ Encapsulation consistency
- ✓ Structural integrity of DELT formulation

Independent validation strengthens the scientific credibility of DELT™ Technology.

Clinical Bioavailability Study – DELT™ Vitamin C

Objective

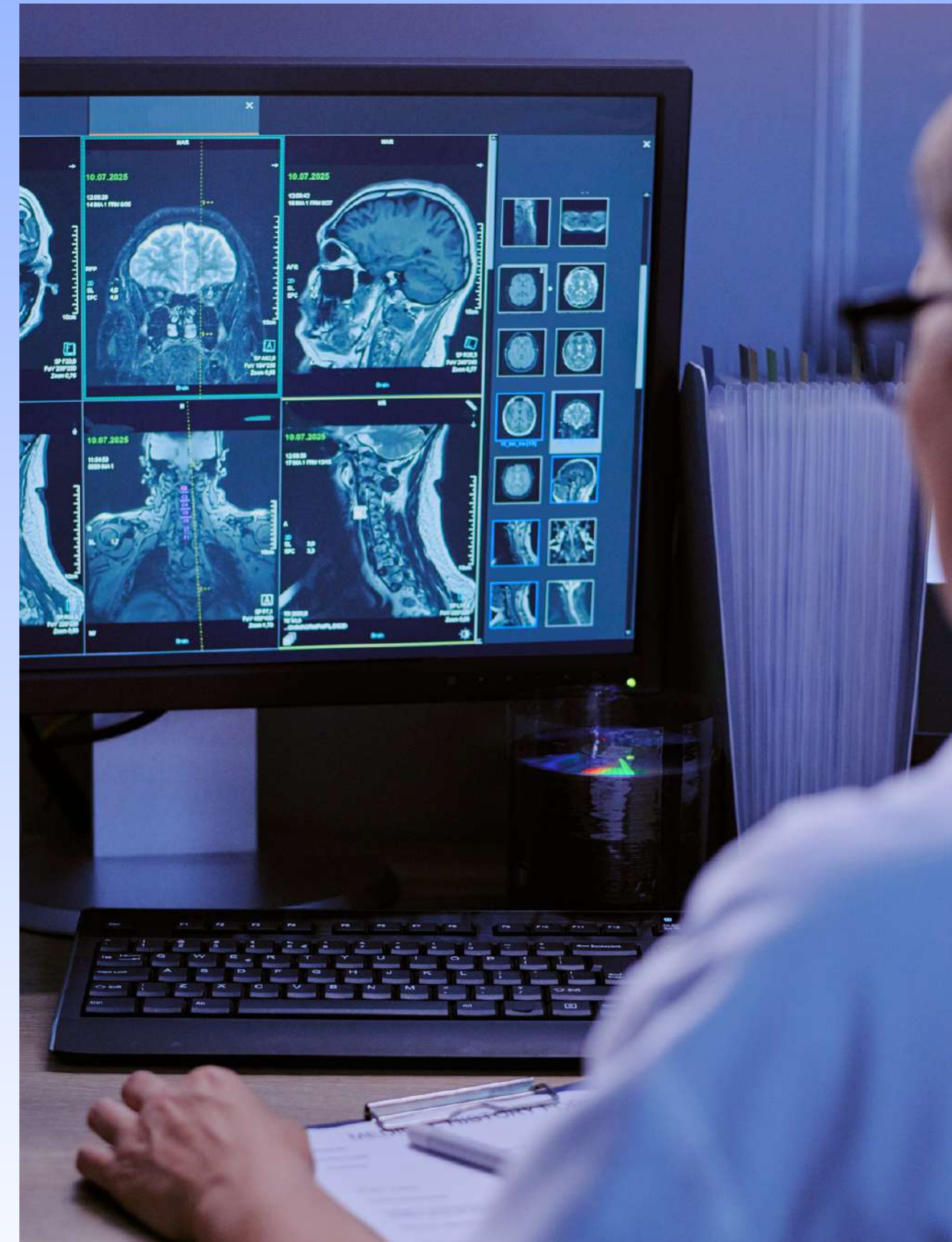
To compare the bioavailability of DELT™ Vitamin C with:

- Liposomal Vitamin C
- Reference Vitamin C

Study Design:

- Randomized, double-blind, single dose
- 350 mg Vitamin C per capsule
- Three-way crossover study
- 7 ± 1 day washout
- Plasma sampling up to 12 hours
- LC-MS validated bioanalysis

Participants: 12 healthy volunteers (6M / 6F)
Mean age: 34.1 ± 4.9 years

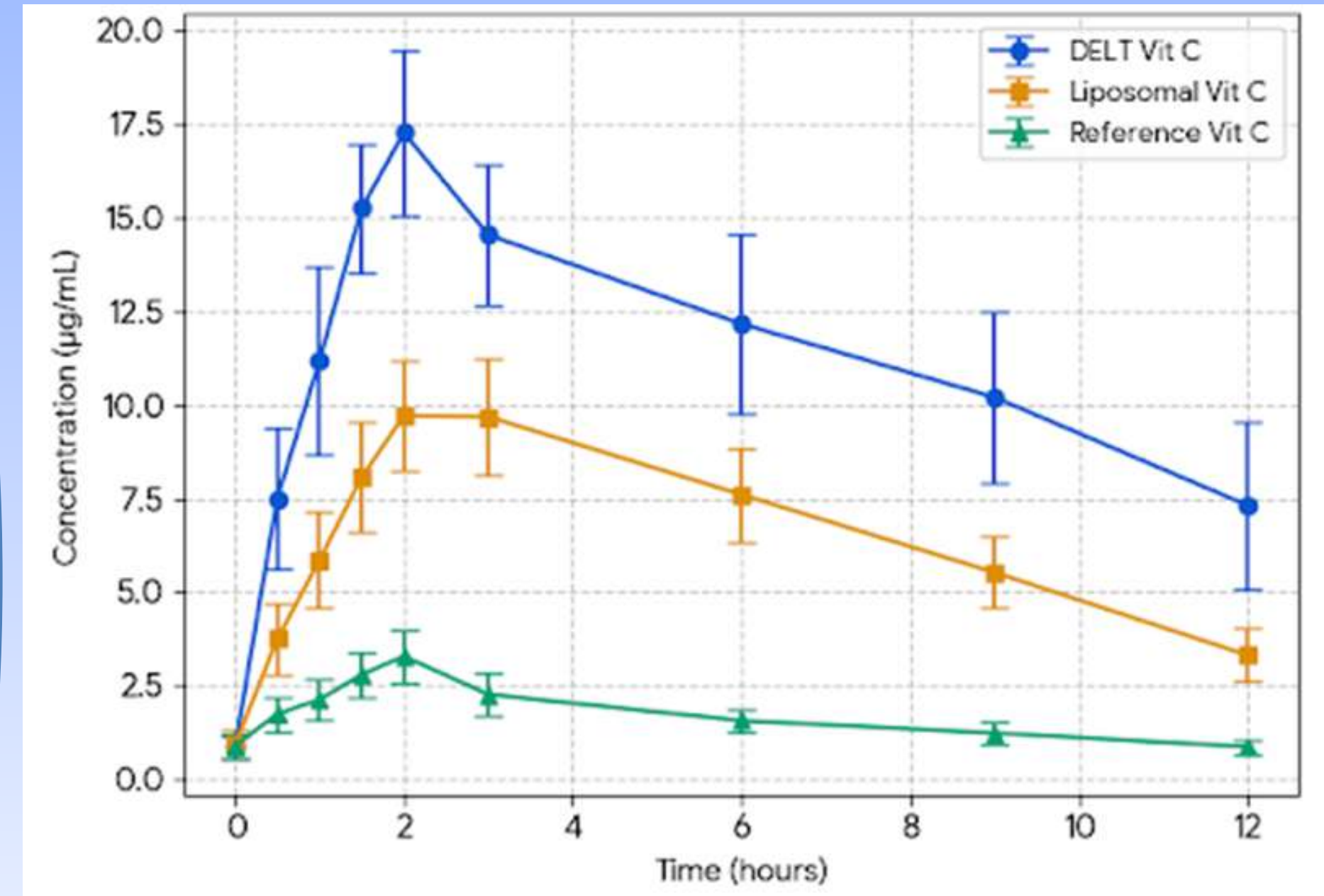


Clinical Bioavailability Study – DELT™ Vitamin C

Plasma Vitamin C Concentration Profile

Key Observations

- Peak concentration at ~2 hours (Tmax similar across groups)
- DELT™ achieved the highest Cmax
- Sustained plasma levels maintained up to 12 hours
- Clear separation from liposomal and reference formulations



Mean Plasma Vitamin C Concentration After Single-Dose Administration.

Clinical Bioavailability Study – DELT™ Vitamin C

Pharmacokinetic Superiority of DELT™

AUC₀-last (μg·h/mL)

- DELT: 126.32 ± 19.60
- Liposomal: 68.11 ± 8.46
- Reference: 11.43 ± 2.60

C_{max} (μg/mL)

- DELT: 16.90 ± 1.90
- Liposomal: 9.92 ± 1.10
- Reference: 2.62 ± 0.76

AUC₀-inf (μg·h/mL)

- DELT: 206.32 ± 62.75
- Liposomal: 84.99 ± 17.45
- Reference: 12.73 ± 3.77

Half-life (t_{1/2})

- DELT: 8.52 ± 2.34 h
- Liposomal: 5.49 ± 1.13 h
- Reference: 3.70 ± 1.78 h

DELT™ Dual Encapsulation significantly enhances systemic exposure, peak concentration, and retention of Vitamin C compared to both conventional liposomal and non-liposomal formulations

Clinical Bioavailability Study – DELT™ Vitamin C

Conclusion

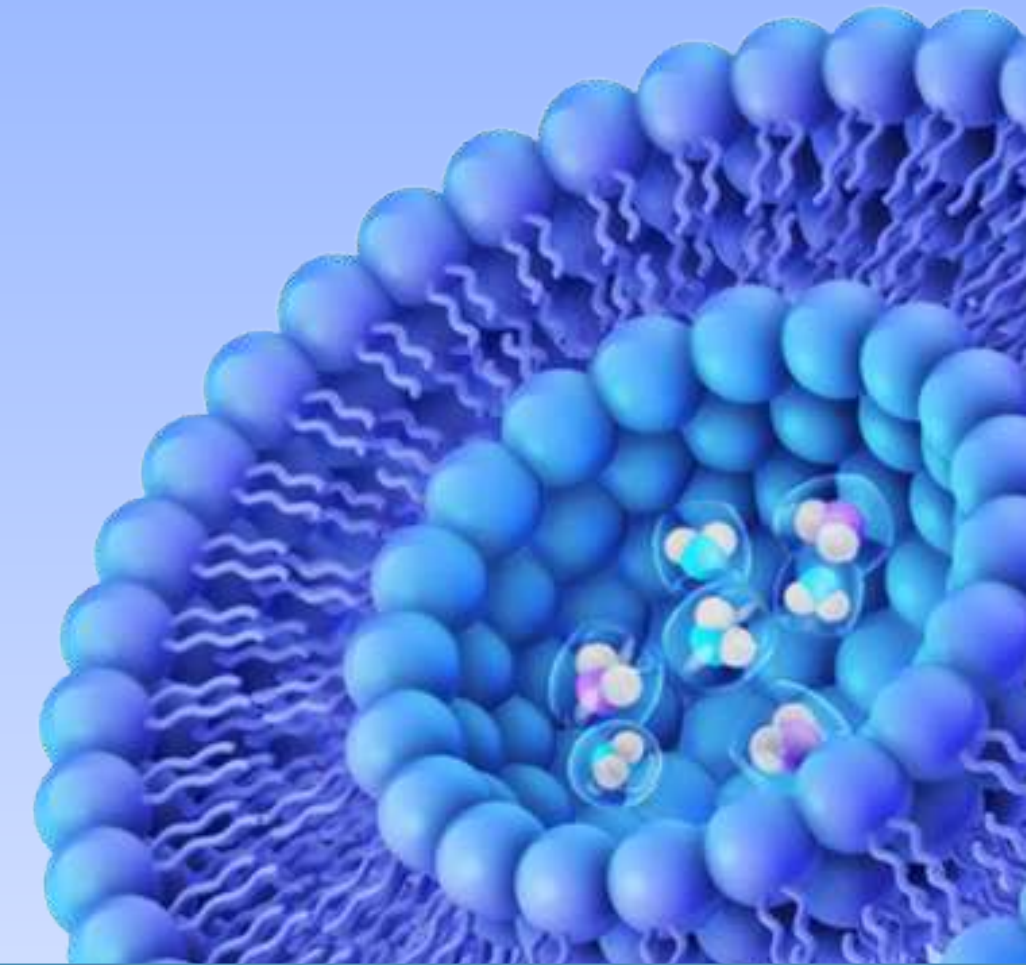
Key Clinical Outcomes

- Significantly higher C_{max}
- Significantly higher systemic exposure (AUC₀-last & AUC₀-inf)
- Significantly higher peak plasma concentration (C_{max})
- Prolonged half-life and reduced elimination rate
- Sustained plasma levels up to 12 hours
- Comparable T_{max} across all groups

DELT™ Technology provides clinically validated enhancement of oral Vitamin C delivery.

Safety

- No serious adverse events reported
- No clinically significant safety findings
- Well tolerated at 350 mg dose



DELTTM — Beyond Powders

Expanding Dual Encapsulation into [Advanced Liquid Systems](#)

DELT technology was first optimized in powder formats to achieve:

- **Superior structural integrity**
- **Enhanced GI stability**
- **Controlled release performance**
- **Higher encapsulation efficiency**

Building on this success, we extended DELT into liquid delivery platforms, overcoming traditional liquid liposome instability challenges.

DELT is not a product. It is a scalable delivery platform.

Introducing DELT™ Liposomal Liquid Systems

Advanced Nano-Liposomal Liquids Powered by DELT™

Our liquid formulations are designed for:

- Enhanced absorption
- Superior dispersion stability
- High zeta potential stability
- Reduced aggregation tendency
- Gut-friendly high-dose delivery

The first product developed under this platform:

DELT™ Liposomal Vitamin C Liquid



DELTATM Vitamin C Liquid

Technology, Structural Advantages & Release Performance



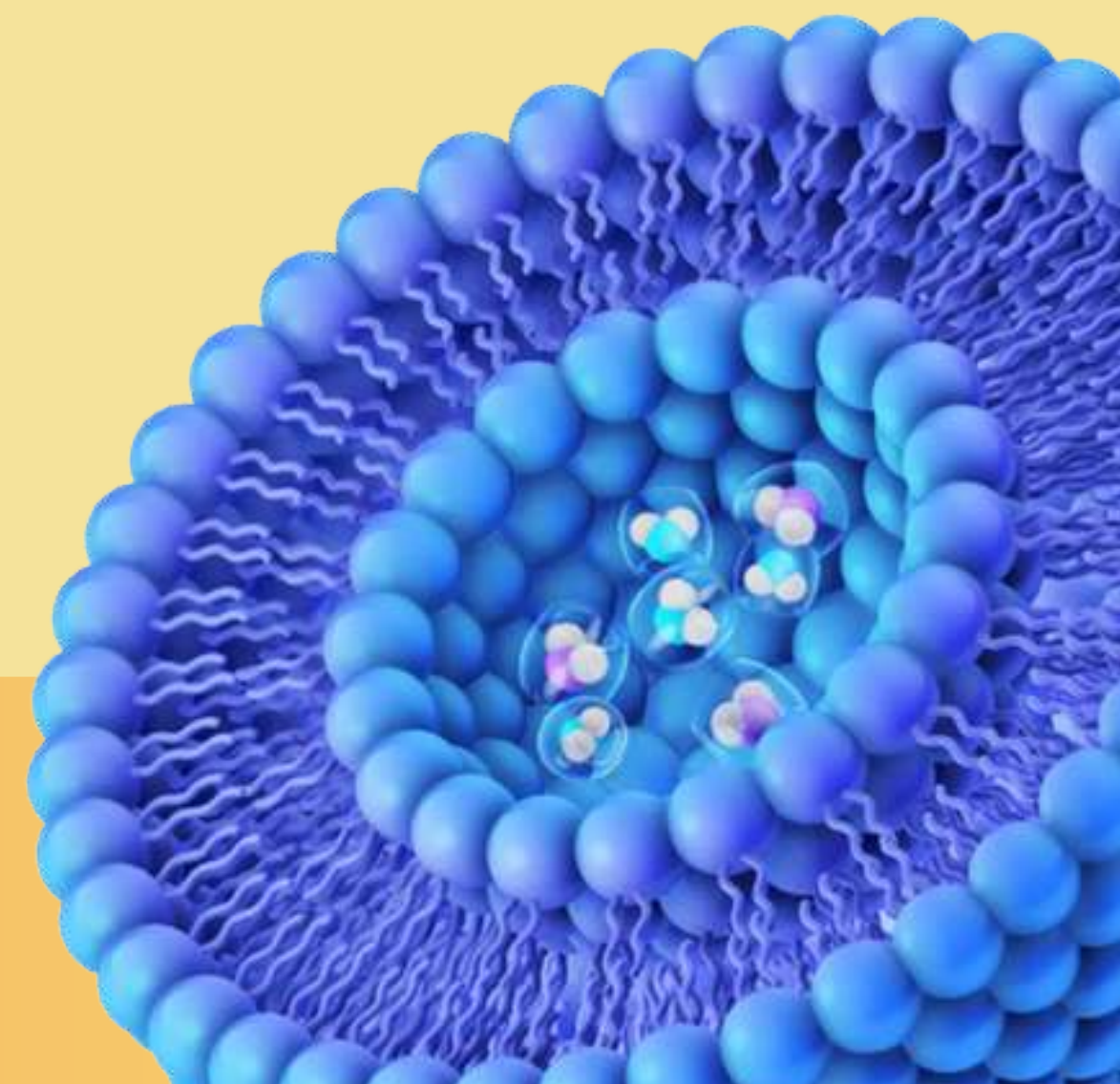
DELT Liposomal Vitamin C Liquid



- Liquid liposomal Vitamin C designed for enhanced absorption and superior tolerance
- Combines liposomal delivery + prebiotics for gut-friendly performance
- Suitable for high-dose Vitamin C supplementation without gastric discomfort

Introduction

- Formulated using an advanced liposomal delivery technology
- **Patent-pending formulation** approach designed to enhance stability and absorption
- Protects Vitamin C from degradation in the gastrointestinal environment
- Enables improved bioavailability and controlled release
- Optimized for liquid dosage forms with uniform dispersion and consistency



Vitamin C, Reimagined for the Gut

Vitamin C formulated with prebiotics in a liposomal liquid form

- Gentle on the stomach
- Does not cause irritation
- Designed for daily high-dose use
- Supports gut comfort and tolerance

Because better absorption shouldn't come with discomfort.



Key Advantages of DELT Liposomal Vitamin C Liquid

Functional Advantages

- **Enhanced Bioavailability**

Liposomal structure enables significantly higher systemic absorption

- **Superior Dispersibility**

Liquid liposomes disperse uniformly without aggregation

- **High Stability**

Advanced Liposomal technology protects against degradation

- **Gut-Friendly Formulation**

Prebiotics reduce irritation and support digestive comfort

- **Uniformity**

No phase separation; stable, homogeneous liquid system



Comparative Characterization Study

DELT Liposomal Vitamin C Liquid vs **Competitor Brand Lypo C**

Comparative evaluation performed using:

- Scanning Electron Microscopy (SEM)
- Transmission Electron Microscopy (TEM)
- Dynamic Light Scattering (DLS)
- Zeta Potential Analysis

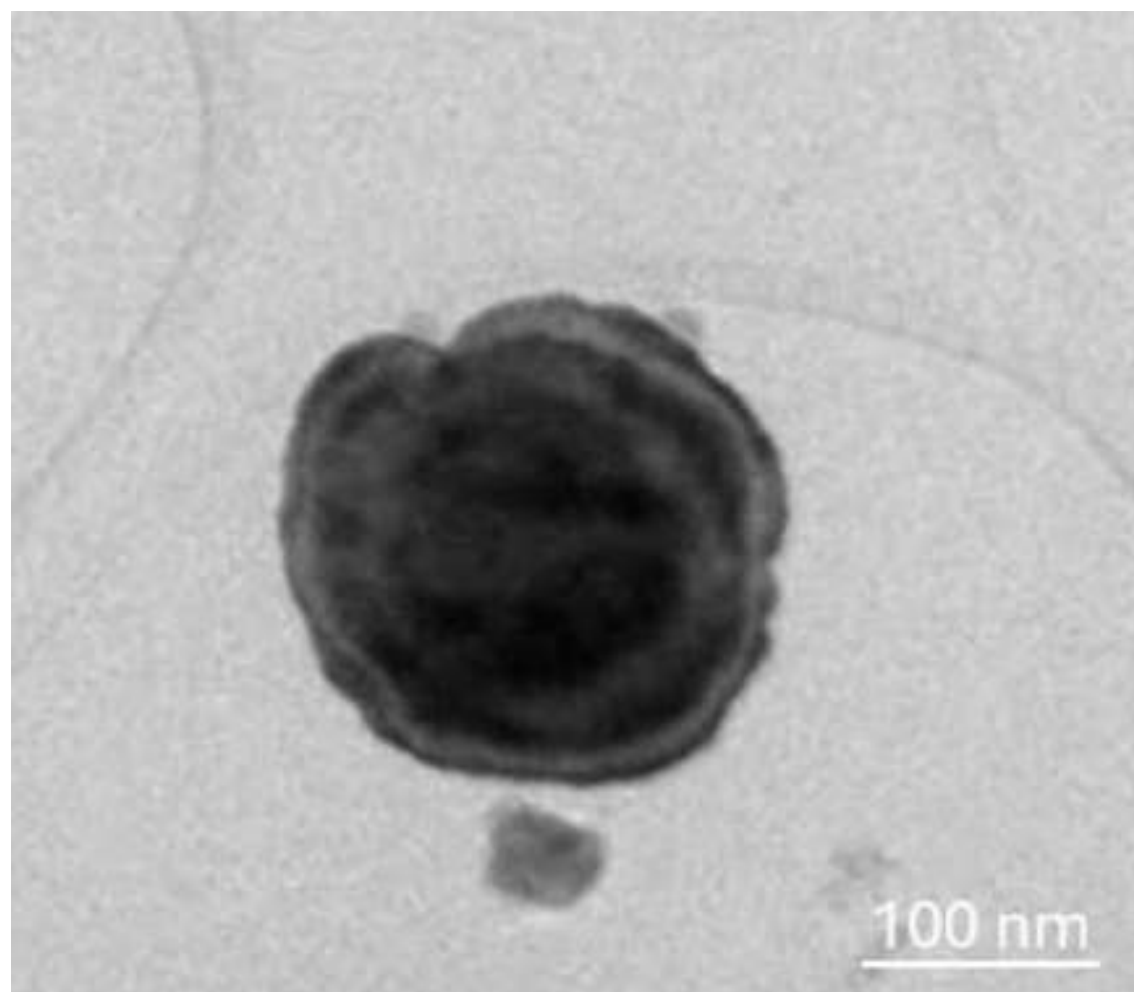
OBJECTIVE: To assess morphology, particle uniformity, stability, and dispersion behavior

Comparison based on instrumental characterization data from both formulations

Transmission Electron Microscopy (TEM)

DELT Vitamin C liquid

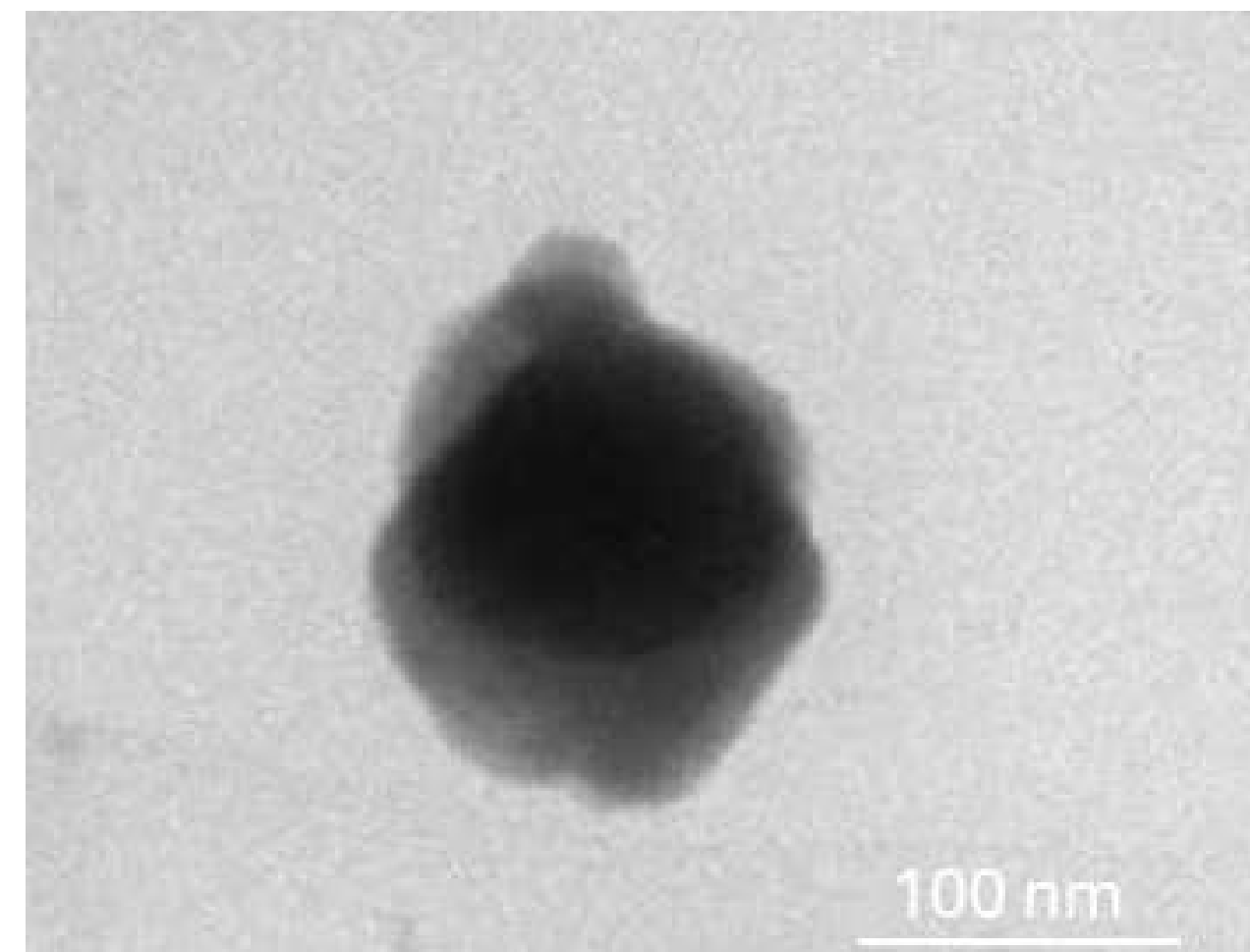
- Well-defined nanosized liposomes
- Smooth, spherical morphology



TEM image of DELT Vitamin C liquid

Lypo C

- Less defined vesicle boundaries
- Structural irregularities observed
- Indicates comparatively weaker liposomal organization

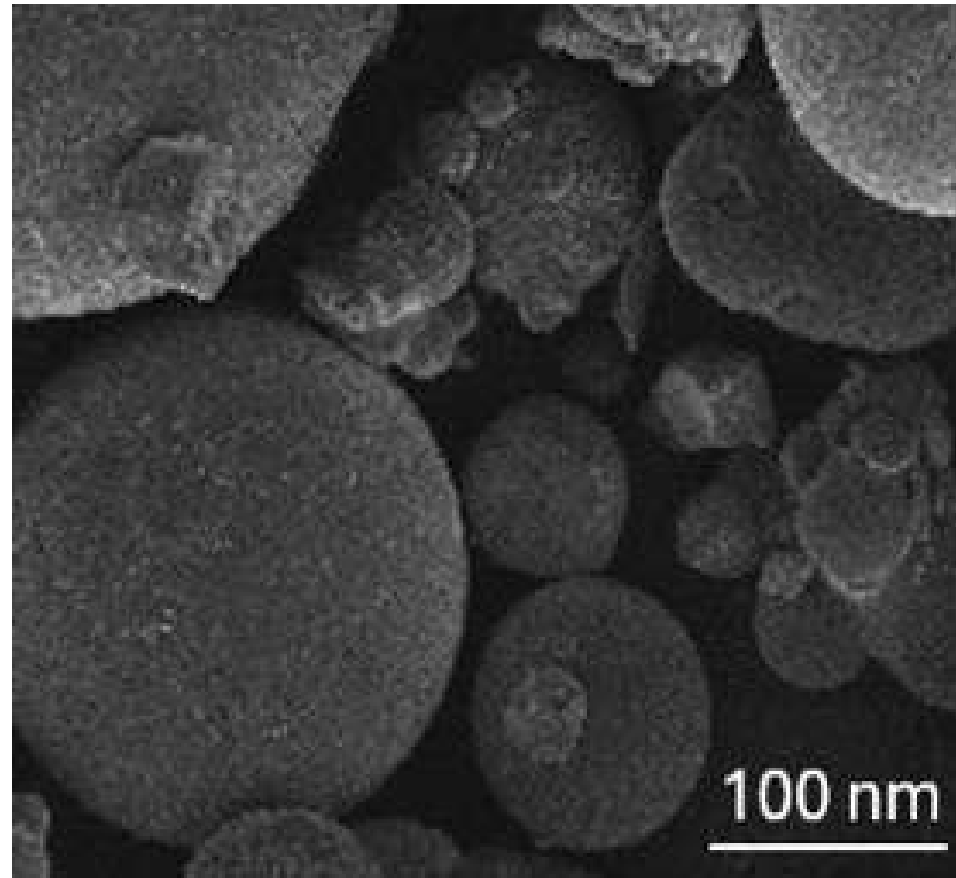


TEM image of Lypo C

Scanning Electron Microscopy (SEM)

DELT Vitamin C liquid

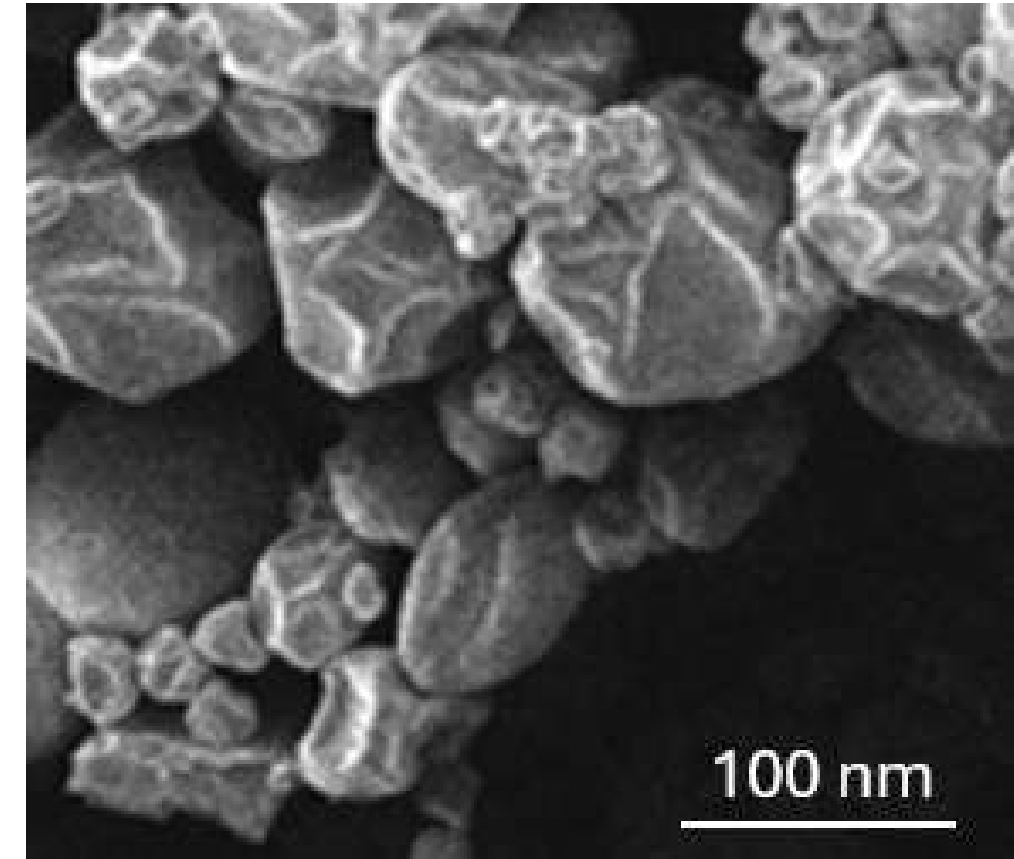
- Nanosized, spherical liposomal structures
- No aggregation or collapse observed
- Confirms high physical stability.



SEM image of DELT liposomal Vitamin C liquid

Lypo C

- Less uniform particle morphology
- Presence of irregular or aggregated structures
- Indicates comparatively lower structural stability



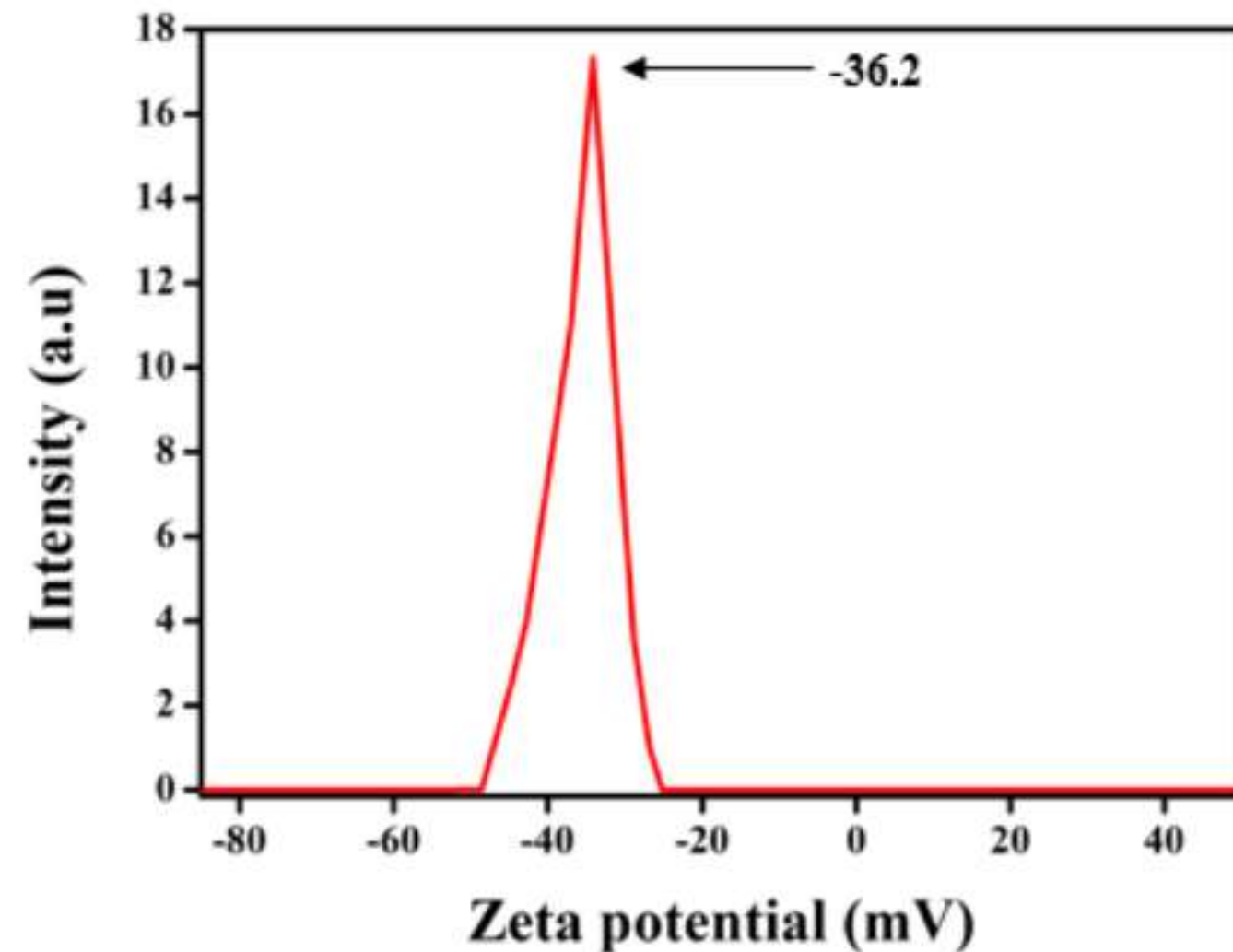
SEM image of Lypo C

Zeta Potential Analysis

DELT Vitamin C liquid

- Zeta potential: -36.2 mV

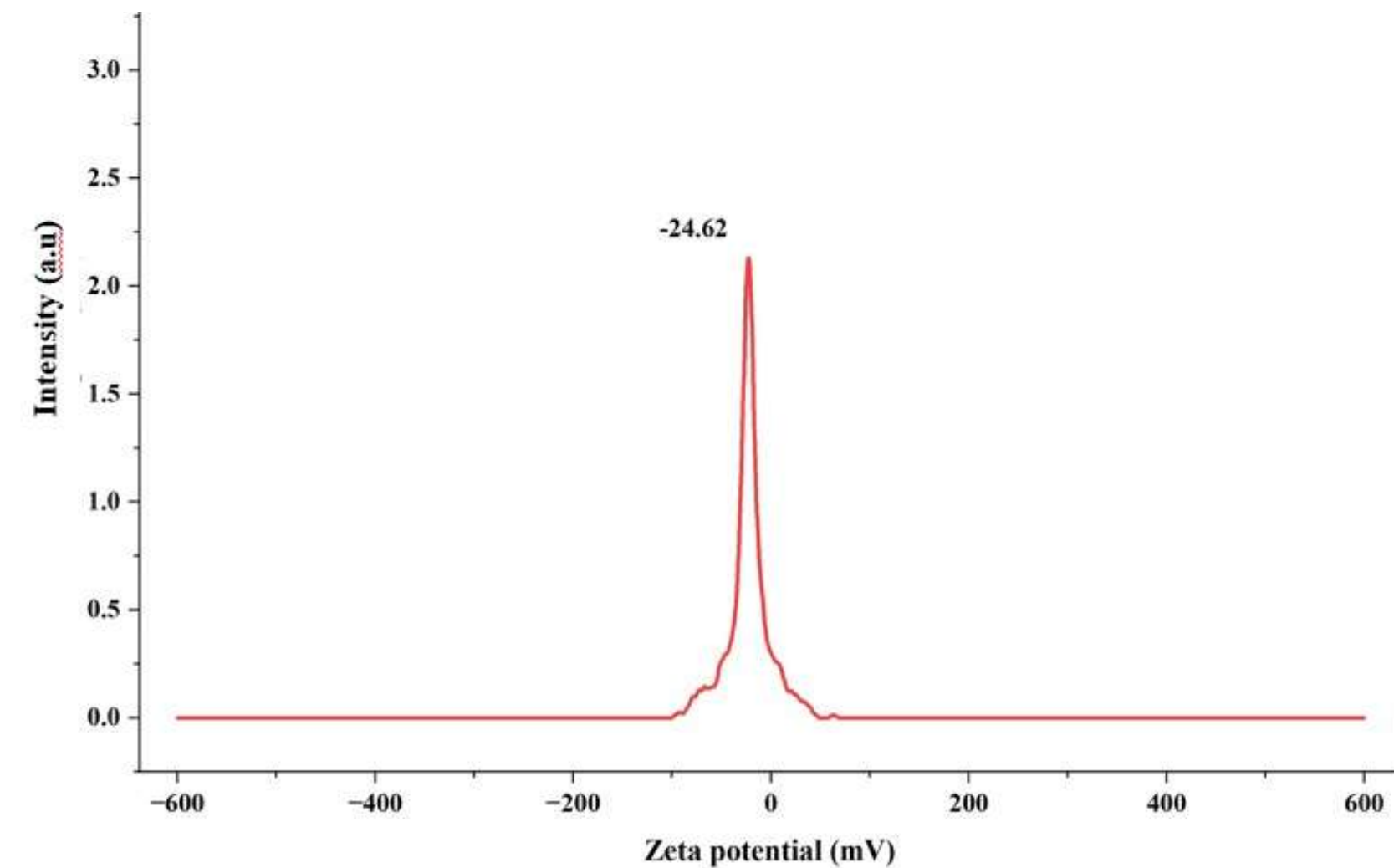
Indicates strong electrostatic repulsion and long-term stability



Zeta Potential of DELT Vitamin C liquid

Lypo C

- Zeta potential : -24.62 mV
- Reduced electrostatic repulsion
- Higher probability of particle interaction and instability

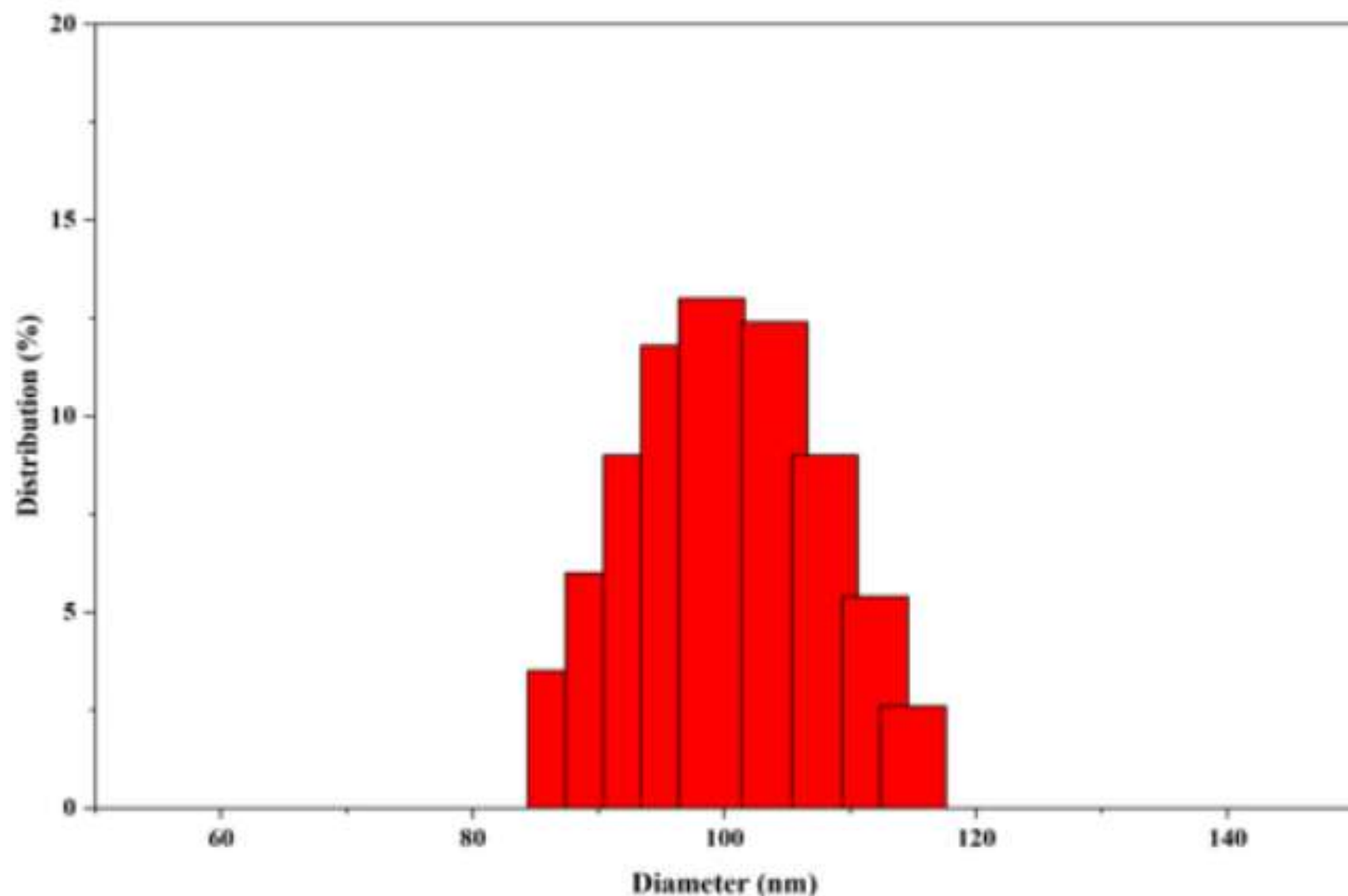


Zeta Potential of Lypo C

Dynamic Light Scattering (DLS) Size Profile

DELT Vitamin C liquid

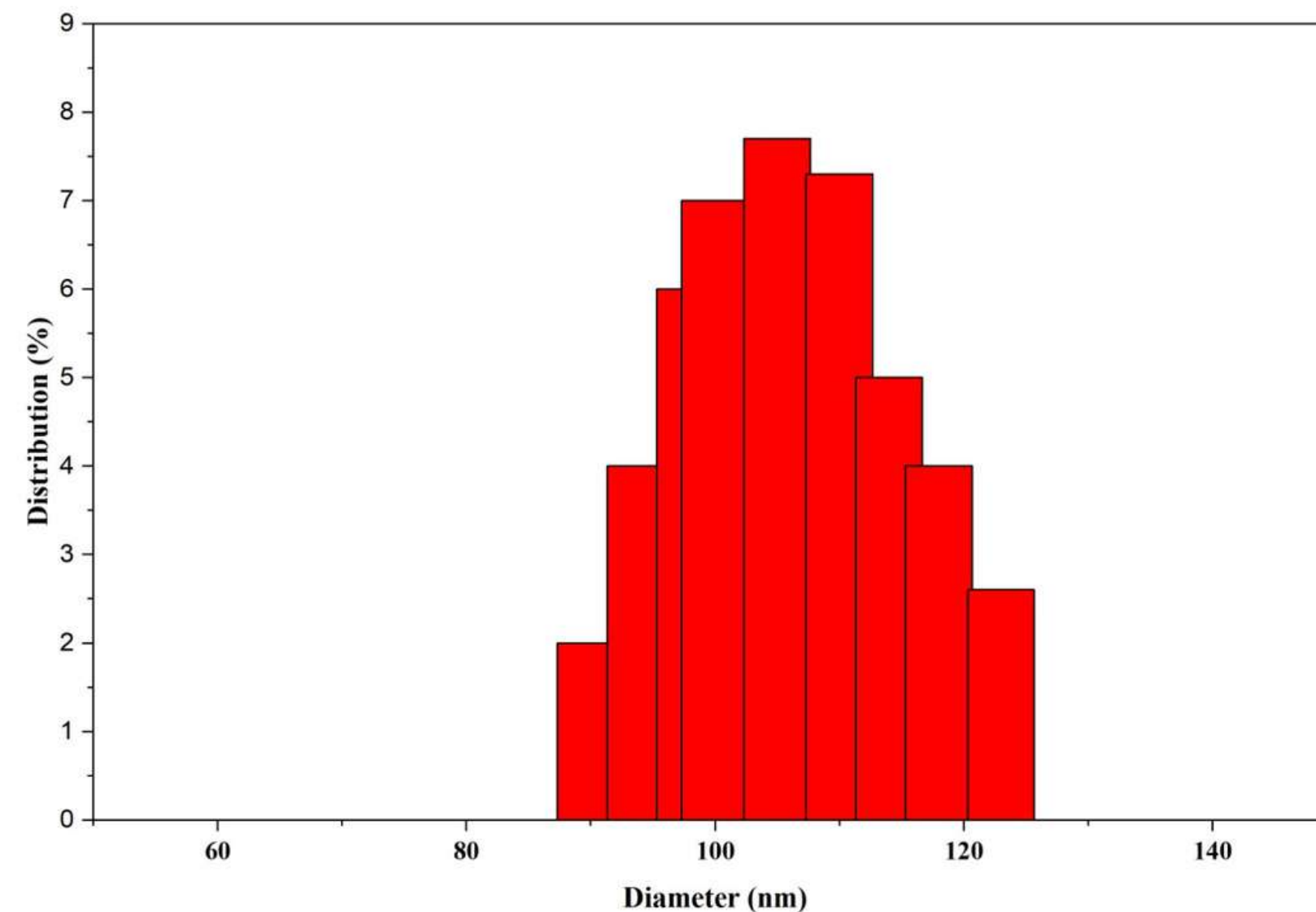
- Mean particle size: ~99 nm
- (Range: 87–115 nm)
- Narrow size distribution → uniform vesicle population



DLS plot of DELT vitamin C liquid

Lypo C

- Larger mean diameter: ~105 nm
- (Range: 90-125 nm)
- Higher variability → lower colloidal stability



DLS plot of Lypo C

Comparative Summary: **DELT** Vitamin C vs **Lypo C**

DELT Liposomal Vitamin C Liquid demonstrates:

- **Superior particle uniformity**
- **Better structural integrity**
- **Enhanced dispersion stability**
- **Lower aggregation tendency**

These physicochemical advantages contribute to:

- **Improved formulation stability**
- **Consistent dosing**
- **Better performance in liquid systems**

Clinical Bioavailability Study

Objective

To compare the bioavailability of:

- **DELT™ Liposomal Vitamin C Liquid**
- **Liposomal Vitamin C Liquid**
- **Conventional (Reference) Vitamin C Liquid**

Participants

6 healthy adult volunteers (n = 6)

All subjects completed the study

Included in PK analysis

Study design

Randomized, double-blind

Single-dose (1000 mg / 5 mL)

3-treatment, 3-period, 3-way crossover

Fasting conditions

Blood sampling at:

0 (pre-dose), 0.5, 1, 2, 4, 6, 9, 12, and 24 h

Non-compartmental pharmacokinetic analysis

Two-way ANOVA followed by Tukey test

Clinical Bioavailability Study

Pharmacokinetic Results

C_{max} (Peak Plasma Concentration)

DELT™: 48.72 ± 5.69 µg/mL

Liposomal: 26.70 ± 1.49 µg/mL

Conventional: 8.37 ± 0.69 µg/mL

(p < 0.005 vs conventional)

AUC_{0-t}

DELT™: 599.42 ± 60.02 µg·h/mL

Liposomal: 235.80 ± 18.17 µg·h/mL

Conventional: 67.76 ± 6.50 µg·h/mL

AUC_{0-∞}

DELT™: 879.76 ± 190.66 µg·h/mL

Liposomal: 256.37 ± 26.8 µg·h/mL

Conventional: 72.23 ± 5.01 µg·h/mL

Half-life (t_{1/2})

DELT™: 14.85 ± 3.77 h

Liposomal: 6.75 ± 1.54 h

Conventional: 6.07 ± 3.91 h

Fold Bioavailability



DELT™: 8.84-fold higher vs conventional

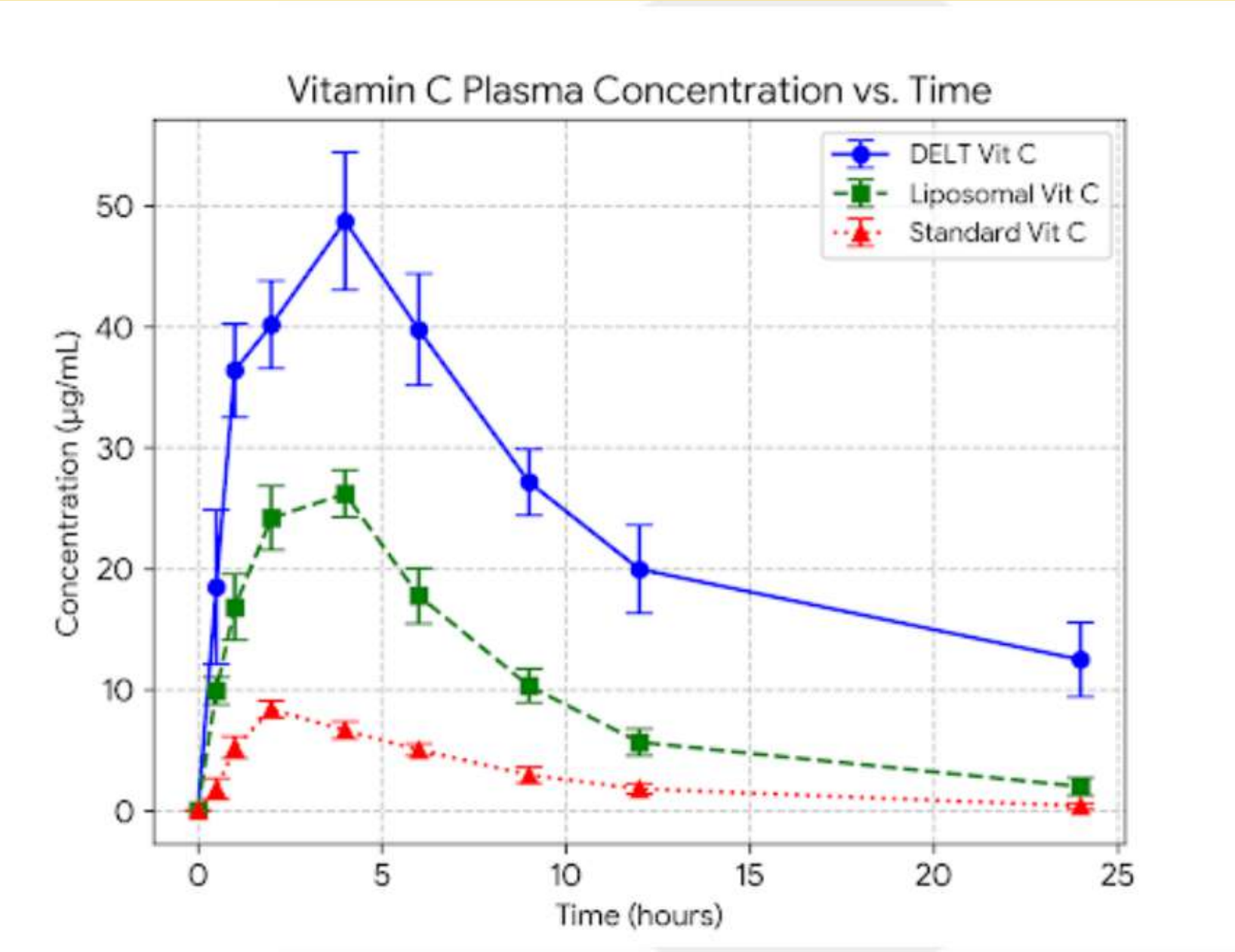


Liposomal: 2.5 -fold higher vs conventional

Clinical Bioavailability Study

Mean Plasma Vitamin C Concentration

After Single-Dose Administration



24-hour plasma concentration–time curve of DELT™, Liposomal, and Conventional Vitamin C Liquid; mean $\pm$ SD, n = 6)

Clinical Bioavailability Study

Conclusion

- **Significantly higher C_{max}**
- **Markedly greater AUC**
- **Extended half-life**
- **Sustained plasma concentration**
- **8.84-fold improvement in bioavailability**

Overall Outcome

DELT™ Liposomal Vitamin C Liquid demonstrated superior absorption, prolonged systemic retention, and significantly enhanced bioavailability compared to both liposomal and conventional Vitamin C liquid formulations.

Product Showcase

DELT Liposomal Vitamin C Liquid



- Uniform yellowish liquid
- Homogeneous consistency
- No visible phase separation or sedimentation
- No sachet bulging observed; no signs of oxidation

Our Liquid Product Portfolio

A comprehensive range of advanced liquid formulations developed for enhanced absorption, stability, and performance

The following section highlights our other liquid formulations



Liposomal Iron + Vitamin C Liquid

- Liquid liposomal iron designed for enhanced absorption and improved tolerability
- Vitamin C supports iron absorption and bioavailability
- Gentle on the stomach; reduced metallic aftertaste
- Suitable for daily iron supplementation

Functional Benefits:

- Contributes to normal hemoglobin formation
- Supports energy metabolism
- Helps reduce tiredness and fatigue

Liposomal Curcumin Liquid

- Liposomal delivery enhances curcumin solubility and absorption
- Designed for anti-inflammatory and antioxidant support
- Improved stability compared to conventional curcumin liquids
- Suitable for long-term daily use



Functional Benefits:

- Helps manage inflammation
- Supports joint and immune health
- Contributes to overall antioxidant protection

Liposomal Ashwagandha Liquid

- Liposomal herbal formulation for better bioavailability
- Supports stress adaptation and mental balance
- Non-sedative, gut-friendly liquid format
- Ideal for modern lifestyle stress support



Functional Benefits:

- Helps manage physical and mental stress
- Supports energy and vitality
- Aids overall well-being

Liposomal Magnesium Liquid

- Highly bioavailable magnesium bisglycinate in liposomal form
- Designed for better absorption and reduced GI discomfort
- Supports muscle, nerve, and mental relaxation

Functional Benefits:

- Helps reduce mental stress and fatigue
- Supports muscle relaxation
- Contributes to normal nervous system function



Liposomal Glutathione + NAD+ Liquid

- Advanced liposomal antioxidant formulation
- Supports cellular protection and energy metabolism
- Designed for superior stability in liquid systems

Functional Benefits:

- Protects cells from oxidative damage
- Supports detoxification pathways
- Helps maintain cellular energy levels

Liposomal Apple Cider Vinegar Liquid



- Liposomal ACV for improved palatability and stability
- Enhanced delivery with reduced acidity impact
- Suitable for daily metabolic support

Functional Benefits:

- Supports digestion
- Helps maintain healthy metabolism
- Supports blood sugar balance



Liposomal Vitamin C + Manuka Honey Liquid

- Combines high-dose liposomal Vitamin C with Manuka honey
- Enhanced immune support with natural taste masking
- Gentle on the stomach and suitable for daily use



Functional Benefits:

- Supports immune function
- Provides antioxidant protection
- Soothes throat and digestive tract

Liposomal Lion's Mane Mushroom Liquid

- Liposomal nootropic formulation for cognitive support
- Designed for enhanced absorption of mushroom actives
- Supports mental clarity and focus

Functional Benefits:

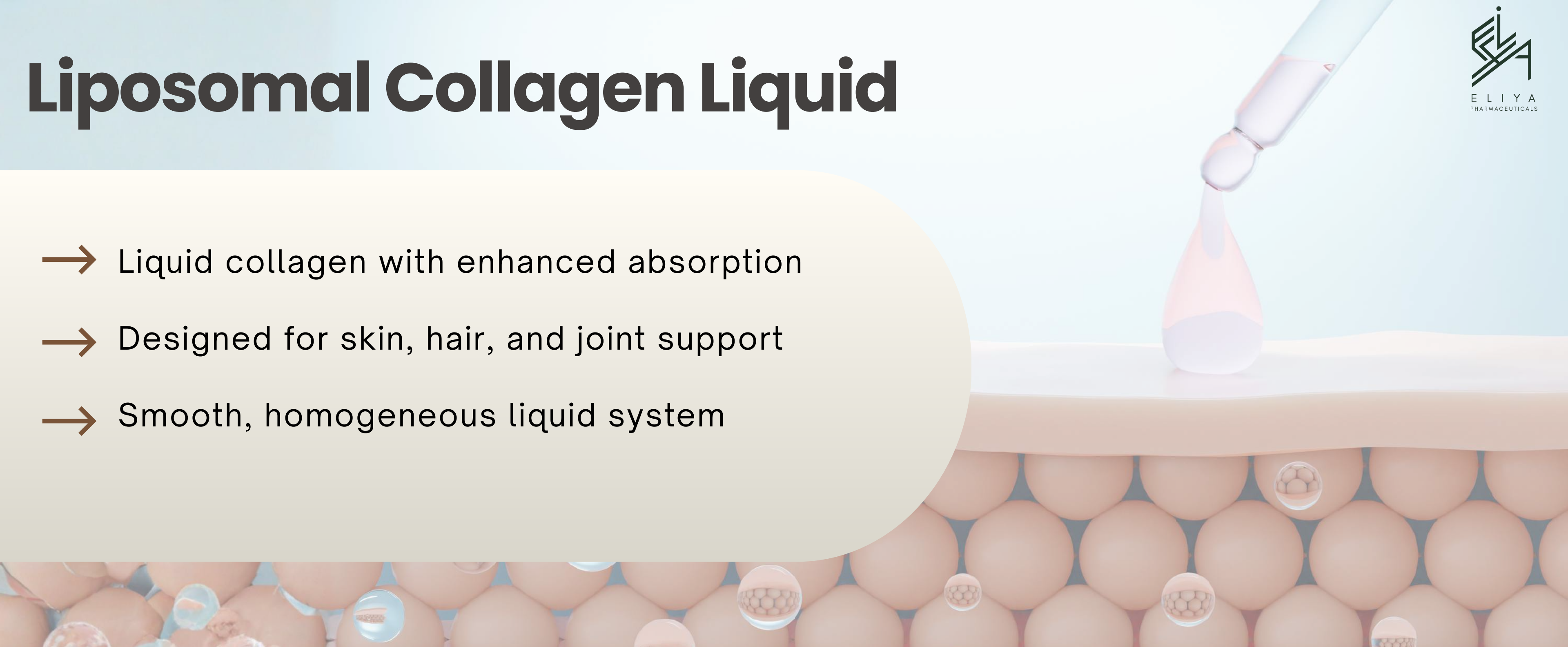
- Supports brain function and memory
- Enhances mental focus
- Supports overall cognitive health

Liposomal Collagen Liquid

- Liquid collagen with enhanced absorption
- Designed for skin, hair, and joint support
- Smooth, homogeneous liquid system

Functional Benefits:

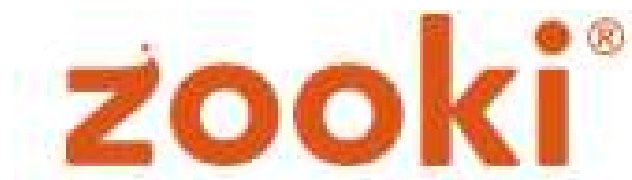
- Supports skin elasticity and firmness
- Supports joint and connective tissue health
- Promotes overall structural integrity



Our Global Footprints

Trusted by nutraceutical brands, manufacturing partners, and industry stakeholders across global markets

Our associations include:



Miduty



RxOS



Thank you