

# Sphirence

BY DIVERSA TECHNOLOGIES

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## A new chapter for DIVERSA.

After more than a decade developing advanced delivery systems for biomedical applications, DIVERSA Technologies is proud to announce the launch of Sphirence — a biomimetic delivery technology platform for advanced cosmetic formulations.

This is not a pivot. It is an evolution. The natural expansion of a scientific platform we have spent years building.

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### THE VISION

## Why DIVERSA built Sphirence.

Over the past decade, our team at DIVERSA Technologies has worked at the frontier of drug delivery science — developing advanced lipid-based systems capable of protecting, transporting, and releasing complex molecules in demanding biological environments.

As we deepened our expertise, a parallel challenge became impossible to ignore: the cosmetic industry is working with increasingly sophisticated actives — peptides, retinoids, enzymes, botanical oils — yet formulation science has not kept pace. Valuable ingredients fail not because they lack efficacy, but because they are unstable, poorly incorporated, or unable to reach their intended site of action.

Sphirence was created to bridge that gap. By translating the rigor of pharmaceutical delivery science into a new context, we are enabling cosmetic formulations that are more intelligent, more stable, and more effective.

“With Sphirence we take a natural step in the evolution of DIVERSA. For years we have worked on technologies able to help complex molecules overcome technical barriers in the biomedical space. Now we want to put that knowledge to work for an industry closer to the consumer, with enormous innovation potential.”

— ABI VÁZQUEZ, COO & CO-FOUNDER, DIVERSA TECHNOLOGIES

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PLATFORM ARCHITECTURE

# What makes Sphirence different.

Ten years of pharmaceutical drug delivery science — translated into a validated, patent-protected platform for cosmetic actives.

ARCHITECTURE

## Biomimetic Lipid Shell

Structural design inspired by biological membranes — enabling seamless integration with skin architecture and enhanced active internalization.

STABILITY

## Formulation Robustness

Stable across pH 3–12 and 25–100°C. Designed to withstand real-world manufacturing processes without structural compromise.

VERSATILITY

## Modular by Design

The platform adapts to the molecular requirements of each active — not a fixed formula, but a tunable delivery architecture.

VALIDATION

## Patent-Protected IP

Built on a proprietary platform with global IP protection and validated efficacy data — from microscopy to epidermal penetration models.

167%

CELL VIABILITY  
BOOST

pH 3–12

STABLE RANGE

25–100°C

THERMAL  
RESILIENCE

IP

PATENT  
PROTECTED

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FORMULATION CHALLENGES

# The challenges we solve.

The most valuable actives in advanced cosmetic formulations are often the hardest to work with. Sphirence was engineered to address the formulation barriers that limit their potential.

- **Oxidation & Instability** Lipid encapsulation shields sensitive molecules from heat, light, and oxygen exposure throughout shelf life.
- **Poor Incorporation & Solubility** Hydrophobic actives dispersed elegantly into any aqueous system — without aggressive emulsifiers or PEG-based carriers.
- **Limited Delivery Efficiency** Biomimetic membrane affinity drives actives to their target site — confirmed by fluorescence microscopy and epidermal penetration data.
- **Difficult Formulation Matrices** Structural integrity maintained across wide pH and temperature ranges — enabling compatibility with virtually any cosmetic vehicle.
- **Active Protection & Compatibility** The platform's antioxidant fortifying core protects co-loaded actives from premature degradation while preserving formula homogeneity.

## Platform versatility.

Sphirence is not a single product. It is a modular delivery architecture — engineered to adapt to the unique molecular requirements of each active ingredient. This enables us to co-develop tailored solutions across the full spectrum of cosmetic chemistry.

### P&P

#### PEPTIDES & PROTEINS

Fragile molecular structures shielded and delivered to their biological target.

### Vit

#### VITAMINS A, C, D, E

Full oxidative protection and enhanced bioavailability in complex vehicles.

### Ret

#### RETINOLIDS

Stabilized delivery of one of the most potent — and unstable — cosmetic actives.

### Oil

#### OILS & LIPIDS

Prevents rancidity and enables aqueous incorporation of complex lipid blends.

### Ext

#### NATURAL EXTRACTS

Handles complex, heterogeneous botanical matrices with formulation elegance.

### Mol

#### SMALL MOLECULES

Solubility barriers overcome — upgraded into highly water-compatible systems.

Bring us your molecule. We map the delivery strategy before any lab work begins.

## A new stage for DIVERSA.

The launch of Sphirence is not simply the introduction of a new product line. It represents the strategic maturation of DIVERSA Technologies — proof that a platform built with pharmaceutical rigor and scientific depth can transcend its original domain and generate value across industries.

This expansion reflects the versatility and transferability of our core delivery technology. What we have built in the context of drug development — a modular, scalable, biomimetic system — is precisely what an evolving cosmetic industry needs. Sphirence makes that transfer real.

For our partners, investors, and collaborators: Sphirence opens a new chapter of cross-industry opportunity — new markets, new co-development pipelines, and new proof of what DIVERSA's technology platform can become.

Platform  
TECHNOLOGY  
MATURITY

Market  
NEW INDUSTRY  
EXPANSION

Collaboration  
CROSS-SECTOR  
PARTNERSHIPS

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N O W L I V E

# Sphirence is live.

The platform is open. The technology is validated. The team is ready to collaborate. We invite you to explore what Sphirence can bring to your work — whether as a formulator, partner, researcher, or investor in the future of advanced delivery science.

DISCOVER SPHIRENCE →  
WWW.SPHIRENCE.COM

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## Sphirence

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R E B U I L D · P R O T E C T · D E L I V E R