

MEDIA RELEASE

Achieve higher efficacy of Retinol with Clariant's VitiSpheres[®] R8

- **Advanced drop-in encapsulated Retinol allows safe use of high concentrations**
- **New data highlights ability to protect Retinol's stability, promote better bioavailability, and enhance its skin penetration – for higher efficacy**
- **Proven non-irritating formulation ingredient thanks to controlled release of Retinol**

MUTTENZ, NOVEMBER 23, 2022

Cosmetics brands can now help more consumers to get the most out of introducing the benefits of Retinol into their skincare routines. Available worldwide, Clariant's encapsulated Retinol VitiSpheres R8 makes it possible to protect the Retinol's proven anti-aging potency and use higher concentrations safely in creams and serums.

"While consumers across all generations are increasingly seeking out Retinol for its benefit in reducing the appearance of wrinkles, it does have two drawbacks which dramatically lower its potential use. It can cause irritations when not properly dosed, and it is not stable in cosmetic formulations, meaning its properties can degrade prior to application. VitiSpheres R8 overcomes these challenges: it stabilizes the Retinol in formulations over time and enables a controlled, prolonged release into the epidermis skin layer where it will be most effective. Brands and formulators benefit from stable, well-protected Retinol which expands possibilities for higher efficacy products suited to a broad range of skin types," comments Thomas Lukowicz, Clariant Global Application Development Manager.

Clariant's unique multilayer encapsulated Retinol is an easy-to-formulate, drop-in solution for formulators to deliver high molecule charges without compromising skin.

In VitiSpheres R8, Retinol molecules are uniquely held within the solid-lipid core of a leak-proof multilayered capsule. The patented system protects the Retinol from oxidation, ensuring very good stability in formulations compared to benchmark systems. This maintains bioavailability of the Retinol, and reduces the potential loss of beneficial properties both during formulating as well as over a long shelf life.

Importantly, Retinol is only released on skin contact at skin temperature. The encapsulated ingredient melts on application and opens the pathway for Retinol to be released smoothly and gradually into the skin where it will be most effectively taken up, avoiding the potential of a sudden irritation-inducing Retinol overload even at high concentrations.

Its superior Retinol penetration compared to other systems and skin tolerance is confirmed by data – supporting both higher efficacy and the possibility to use higher concentrations in formulations.

For more information on [VitiSpheres R8 technology](#) and to request a sample visit [VitiSpheres R8 \(clariant.com\)](#).



Minimum concentration for optimal effect: Clariant's encapsulated Retinol VitiSpheres R8.

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Clariant is a focused, sustainable, and innovative specialty chemical company based in Muttenz, near Basel/Switzerland. On 31 December 2021, Clariant totaled a staff number of 11 537 and recorded sales of CHF 4.372 billion in the fiscal year for its continuing businesses. The company reports in three Business Areas: Care Chemicals, Catalysis, and Natural Resources. Clariant's corporate strategy is led by the overarching purpose of 'Greater chemistry – between people and planet,' and reflects the importance of connecting customer focus, innovation, sustainability, and people.

Clariant Actives & Natural Origins

Clariant Actives and Natural Origins is on a mission to make a change from the beginning, with the plant all the way to the ingredient that we provide, ultimately impacting the whole Personal Care value chain positively. Under the motto "*The Science of Sustainable Beauty*", the new portfolio offers responsibly collected and extracted naturally derived ingredients with traceability, proven efficacy, and science-backed claims for skin, hair, and body care to support the creation of more sustainable and efficient products addressing consumer care needs. Discover natural plant extracts, actives, oils & butters, clays & exfoliants and more at www.clariant.com/actives-naturalorigins.

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