

Microneedles in a Bottle: The Future of At-Home Skincare

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What Are Spicules?

Spicules are tiny, sharp structures found in marine sponges, composed primarily of calcium or silica. When incorporated into skincare products, they create micro-channels in the skin's outermost layer, the stratum corneum. This process enhances the penetration of active ingredients, allowing for deeper and more effective delivery into the skin.

How Do They Work?

Upon application, spicules gently puncture the skin's surface, mimicking the effects of traditional microneedling treatments. However, unlike professional microneedling, which induces controlled micro-injuries to stimulate collagen production, spicules primarily function as an exfoliative agent. They facilitate the absorption of subsequent skincare products by creating temporary micro-channels, enhancing their efficacy.

Considerations Before Use

While spicule-infused products offer promising benefits, they may not be suitable for everyone. Individuals with sensitive skin or compromised skin barriers should exercise caution, as the micro-punctures can potentially lead to irritation or exacerbate existing skin conditions. It's advisable to perform a patch test before full application and consult with a dermatologist if uncertain.

Popular Products Featuring Spicules

Several skincare brands have introduced products incorporating spicules to capitalize on this trend:

- **VT Cosmetics Needle Shot 100:** Known for its hydrating properties, this serum utilizes spicules to enhance ingredient absorption, promoting a clearer complexion.
- **Cosnori PDRN-shot 675:** Combines spicules with PDRN (Polydeoxyribonucleotide) to support skin regeneration and improve skin texture.
- **Medicube Zero Shot Exosome Shot 7,500 PPM:** Infuses spicules with exosomes to aid in skin repair and rejuvenation.
- **The Derma Co. 50000 PPM Vitamin C Microneedle Serum Shot:** Integrates spicules with a high concentration of Vitamin C to brighten and even out skin tone.

These products are available in India, with prices ranging from approximately ₹1,499 to ₹4,560

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