

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



# 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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