



# HydroSal® Youth (HS YT)

Immediate and lasting technology for wrinkle therapy designed to make skin look younger and suppler.

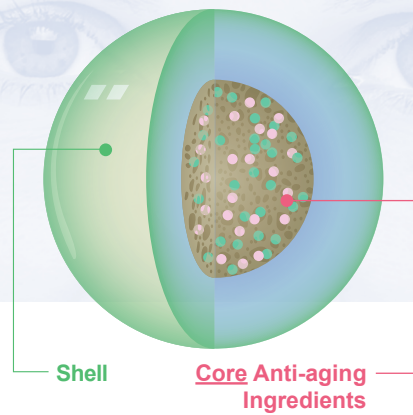


Figure 1: The sub-micron structure of HS YT with the anti-aging actives infused within the core.



## HOW THE TECHNOLOGY HELPS YOU

HS YT is an encapsulation technology comprised of tiny sub-micron spheres (Figure 1). Hyaluronic acid and Vitamin B3 are infused within the porous core of the sphere, which is surrounded by a polymeric shell. The shell is designed to enhance adhesion to the skin and sustain the release of these powerful wrinkle-fighting ingredients, in order to help attain long-lasting benefits.

### UNIQUE FEATURES

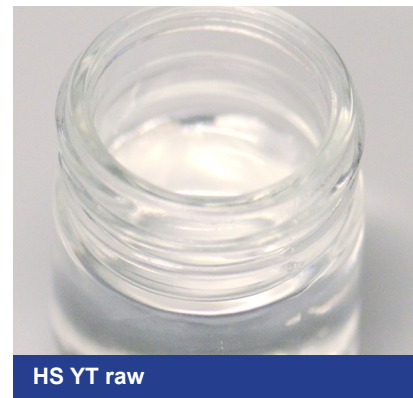
- 1 **IMMEDIATE AND VISIBLE IMPROVEMENT**  
Visibly reduce the appearance of fine lines and wrinkles after one single application.
- 2 **ON-DEMAND RELEASE**  
Experience continuous hydration with a water-activated plumping effect, engineered for various skin types.
- 3 **ELEGANT AND LIGHTWEIGHT**  
Leaves skin feeling smooth and supple with a well-designed, non-greasy formula.
- 4 **COST-EFFECTIVE**  
A little goes a long way. Only need a small amount in order to see a significant effect.

### FUNCTIONAL INGREDIENTS

HS YT utilizes its encapsulation system to deliver the remarkable age-combating benefits, such as hyaluronic acid and vitamin B3 to target deep lines and wrinkles.

**Hyaluronic Acid:** Packed with anti-aging properties, it replenishes the body's much-needed natural hyaluronic acid to retain skin's moisture, firmness, and lift.

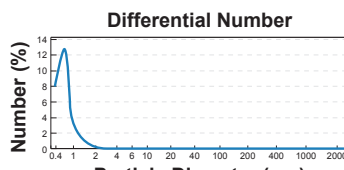
**Niacin (Vitamin B3):** Vitamin B3 is a multi-functional ingredient that repairs and maintains the skin's barrier function, increases skin's moisture retention, decreases the appearance of fine lines and wrinkles, and helps control hyperpigmentation.



Three product forms are shown in a row, each with a blue arrow pointing down to it from the 'HS YT raw' jar above. 
   
1. **Cream:** A white jar of cream being held by a hand.
   
2. **Serum:** A clear glass bottle with a silver cap.
   
3. **Lotion:** A white tube of lotion.

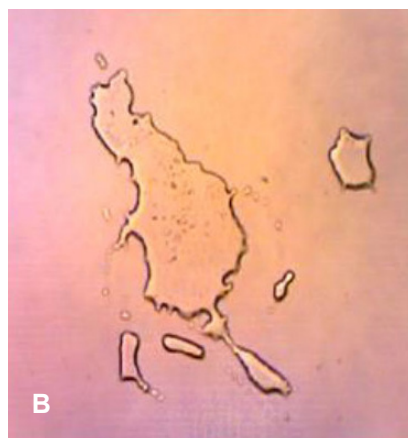
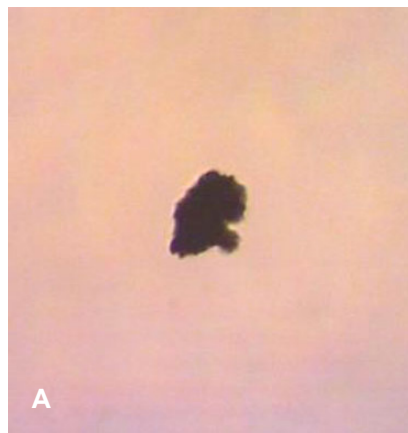
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<b>PARTICLE SIZE</b>	<p>The unique small particle size of HS YT plays a significant role in the effectiveness of the technology, allowing it to penetrate the skin more easily than competing products (Figure 3).</p>		<p><b>Figure 3:</b> The particle size distribution of HS YT shows an average of 0.5 micron in diameter.</p>
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<b>HOW TO USE IT</b>	<p>HS YT can be used in many anhydrous products, such as masks, serums, or eye creams. Skincare products containing HS YT not only plump and moisturize the skin, but they also help to heal and soothe inflammation. Furthermore, the technology can mask and improve fine lines and wrinkles, providing long-lasting results on aged or mature skin.</p>
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<b>EXTENDED EFFICACY ON SURFACES</b>	<p>Once the hyaluronic acid penetrates the skin and comes into contact with moisture, it swells and provides a plumping action. This plumping effect is visible under a microscope (Figure 4).</p>	<b>FORMULATION GUIDELINES</b>	<ol style="list-style-type: none"> <li>1 Best suited to anhydrous formulations.</li> <li>2 When formulating in oil-in-water emulsions, add to oil phase and do not use less than 20% oil phase.</li> </ol>
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**Figure 4:** HS YT when applied to the skin (A) vs. HS YT after being exposed to water (B). The product is swollen to 30 times its original volume.

<b>TECHNICAL DATA</b>	<table border="1"> <tr> <td><b>Appearance @ 20°C</b></td> <td>Translucent viscous fluid</td> </tr> <tr> <td><b>Applications</b></td> <td>Skin care products such as creams, serums, and lotions</td> </tr> <tr> <td><b>Color</b></td> <td>Colorless</td> </tr> <tr> <td><b>Odor</b></td> <td>Characteristic</td> </tr> <tr> <td><b>Particle Size</b></td> <td>95% &lt; 10µm</td> </tr> <tr> <td><b>Shelf Life (months)</b></td> <td>18</td> </tr> <tr> <td><b>Specific Gravity (d25/25°C)</b></td> <td>0.85-0.90 g/cm<sup>3</sup></td> </tr> <tr> <td><b>Usage Level (wt%)</b></td> <td>5-10%</td> </tr> <tr> <td><b>Storage (°C)</b></td> <td>Closed container at 12-32°</td> </tr> </table>	<b>Appearance @ 20°C</b>	Translucent viscous fluid	<b>Applications</b>	Skin care products such as creams, serums, and lotions	<b>Color</b>	Colorless	<b>Odor</b>	Characteristic	<b>Particle Size</b>	95% < 10µm	<b>Shelf Life (months)</b>	18	<b>Specific Gravity (d25/25°C)</b>	0.85-0.90 g/cm <sup>3</sup>	<b>Usage Level (wt%)</b>	5-10%	<b>Storage (°C)</b>	Closed container at 12-32°
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