

HydroSal® SilverGlow

Achieve manageable, stylish, gray hair

HydroSal® SilverGlow is a technology for better manageability of gray hair which nourishes, hydrates, reduces frizz, improves overall health and style retention.

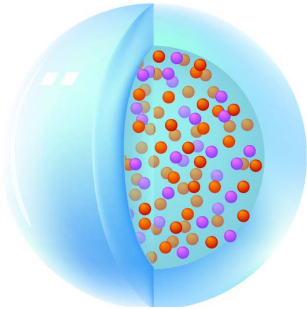


Figure 1. Submicron sphere of HydroSal® SilverGlow.



BENEFITS OF HYDROSAL® SILVER GLOW

- Formation of a protective hair barrier
- Timely release and improved deposition of functional ingredients

FUNCTIONAL INGREDIENTS

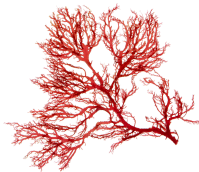
Reishi Mushroom:

Antioxidant rich in copper and vitamin D, nourishing and strengthening the hair, prevents hair loss and blocks dihydrotestosterone (DHT)



Algae:

Moisturizes, softens, improves luster and natural shine



Brassica Extract:

Protects from environmental damage caused by pollutants, UV radiation and free radicals, Improves hair strength and texture



Wheat Protein:

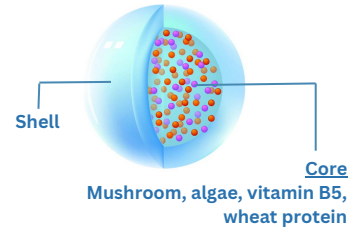
Improves style retention and elasticity, repairs hair damage, reduces frizz and fly aways



COMBAT THE PROBLEMS

Unmanageable, fly away hair, rough uneven texture, hair fragility, dryness, dullness

HydroSal® SilverGlow is a proprietary technology comprising submicron spheres with encapsulated functional ingredients. The technology enables the deposit of the ingredients onto the hair and extends the benefits for longer. HydroSal® SilverGlow in a leave-in or wash-off product radiates elegance by maintaining stylish, silky smooth gray hair. Embrace a natural, beautiful look while eliminating the need to use harsh dyes or chemicals.



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QUALIFICATION

A leave-in hair conditioner was applied to hair swatches then dried and heat-styled curly. One swatch had a leave-in containing no technology, the other hair swatch used the same leave-in conditioner with 5% HydroSal® SilverGlow. A steam test was performed to determine the style retention.

The hair swatch treated with HydroSal® SilverGlow held the style in place while the untreated hairstyle fell out. The treated sample exhibited greater manageability, style retention, softness, and shine.

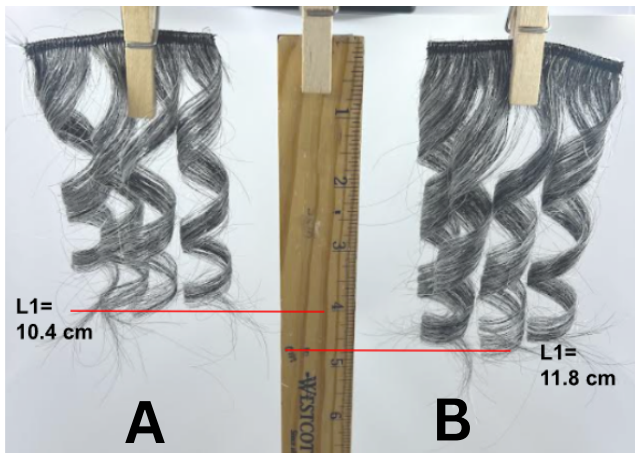


Image 1. Hair swatches before frizz test.
Swatches with leave-in conditioner
A- Without technology
B - With 5% HydroSal® Silver Glow

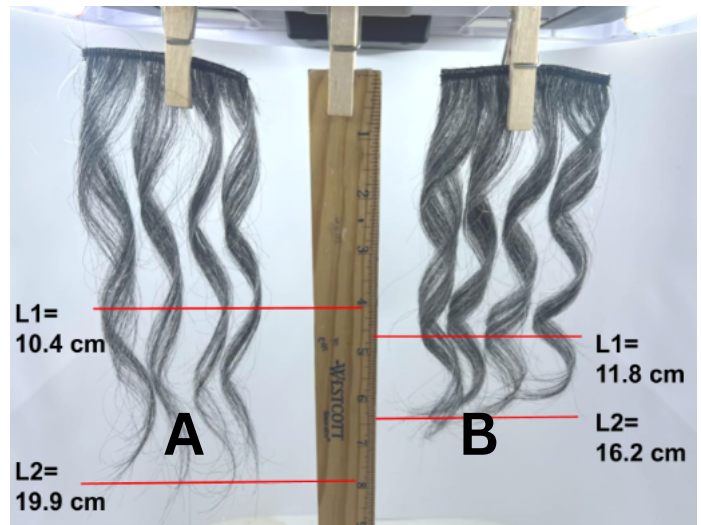
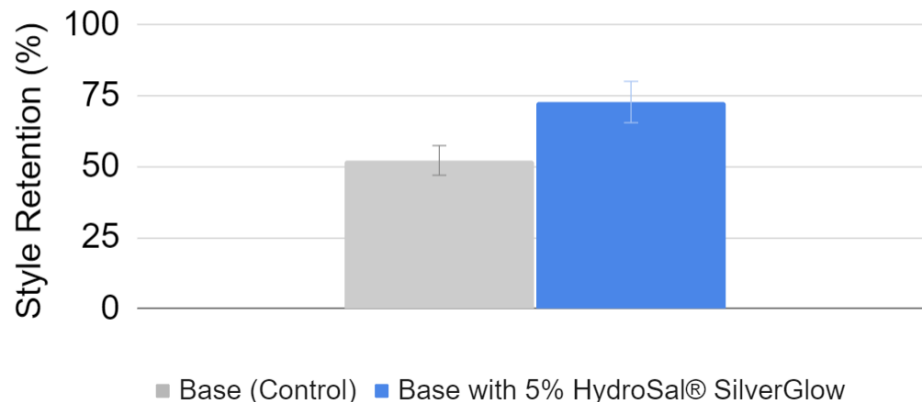
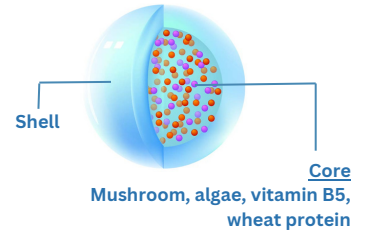


Image 2. Hair swatches after frizz test.
Swatches with leave-in conditioner
A- Without technology
B - With 5% HydroSal® Silver Glow

HydroSal® SilverGlow Improvement in Style Retention

Style retention improved by 25.58%





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Applications

HAIR MASK

Table 1. Formulation of hair mask with HydroSal® SilverGlow Technology.

INCI	Wt (%)
Aqua	62.4
Stearamidopropyl Dimethylamine	5
Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	0.4
Cetearyl alcohol	9
Glyceryl Stearate	2
Isoamyl Laurate	8
Butyrospermum Parkii (Shea) Butter	1
Persea Gratissima (avocado) oil	1
Tocopherol	0.2
Glycerin	5
HydroSal® SilverGlow	5
Phenethyl Alcohol (and) Pentylene Glycol	1
Total	100

LEAVE-IN CONDITIONER

Table 2. Formulation of leave-in conditioner with HydroSal® SilverGlow Technology.

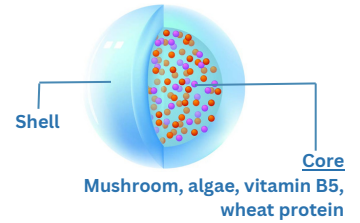
INCI	Wt (%)
Aqua	89
Polyglyceryl-4 Laurate	1.7
Bis-(isostearyl/oleoyl isopropyl) dimonium methosulfate	1.7
Glycerin	1.7
HydroSal® SilverGlow	5
Phenethyl Alcohol (and) Pentylene Glycol	0.9
Total	100



HydroSal® SilverGlow can be introduced at the end of formulations at 40-45C.

Regulatory compliance:





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Technical Data Sheet

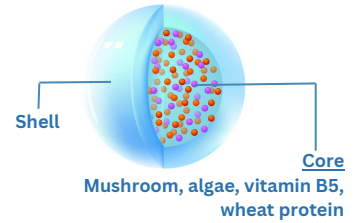
Table 3. INCI list of HydroSal® SilverGlow 8194-01.

INCI
Hydroxypropyl cellulose, Propanediol
Cocamidopropyl PG-Dimonium Chloride Phosphate
Glycerin
Aqua
Astragalus Gummifer Gum
Fucus Vesiculosus Extract
Hydrolyzed wheat protein, benzylalcohol, potassium sorbate, sodium benzoate
Ganoderma Lucidum (mushroom) Stem Extract
Tocopherol
Phenethyl Alcohol (and) Pentylene Glycol
D-panthenol



Table 4. Specifications of HydroSal® SilverGlow 8194-01.

Specification	Characteristic
Appearance at 20 °C	Translucent Liquid
Odor	Characteristic
Color (Visual)	Yellow to tan
pH (neat)	4.5 - 6.5



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Substantiation

<p>Mushrooms</p>	<p>“Mushrooms are a good source of vitamin D, antioxidants and minerals like iron, selenium, and copper, which are all useful in both <u>promoting healthy and strong hair and preventing hair loss and dandruff</u>. The inclusion of mushrooms and/or extracts into haircare cosmetics is of great potential in the cosmetic industry.”</p>	<p>Wu, Y., Choi, M. H., Li, J., Yang, H., & Shin, H. J. (2016). Mushroom cosmetics: the present and future. <i>Cosmetics</i>, 3(3), 22.</p>
<p>Algae</p>	<p>“It <u>increases the luster of hair</u>, has a <u>moisturizing and softening effect</u> on hair.”</p>	<p>Goswami, G., Bang, V., & Agarwal, S. (2015). Diverse applications of algae. <i>Int. J. Adv. Res. Sci. Eng.</i>, 4(1), 1102-1109.</p>
<p>Wheat Protein</p>	<p>“The hydrolyzed wheat protein and wheat starch treatment containing a mixture of monomeric and polymeric peptides and oligosaccharides was most effective in <u>improving the tensile strength of dry hair</u>.”</p>	<p>Daniels, G., Nicholson, S., Grant-Ross, P., & Tamburic, S. (2016). An ex vivo comparison of the tensile strengthening properties of protein derivatives on damaged hair. <i>IFSCC Magazine</i>.</p>
<p>Vitamin B5</p>	<p>“Panthenol, the alcohol of pantothenic acid, is assumed to be a humectant and to <u>improve the strength and flexibility</u> of hair”</p>	<p>Haneke, E., & Baran, R. (2010). Micronutrients for hair and nails. In <i>Nutrition for healthy skin: Strategies for Clinical and Cosmetic Practice</i> (pp. 149-163). Berlin, Heidelberg: Springer Berlin Heidelberg.</p>
<p>HydroSal®</p>	<p>Unique encapsulation technology.</p>	<p>https://www.salvona.com/core-technologies</p>