

# DC HA Filling Complex

INCI: Water (and) Glycerin (and) Hydrolyzed Silk (and) Humic Acids (and) Sodium Hyaluronate (and) Olea Europaea (Olive) Fruit Extract

January 27, 2014

DC1522

## Immediate Hydration and Smoothing Effects

**Hyaluronic acid (HA)**, a naturally occurring glycosaminoglycan (GAG), is a key constituent for maintaining youthful skin appearance. It is well known for its role in binding water to maintain critical hydration of connective tissue, including collagen and elastin. Approximately 50% of the body's naturally produced hyaluronic acid is found in the epidermis. Aging, stress, UV radiation, pollution and other environmental factors diminish HA levels resulting in dry, thinning, fragile skin, more prone to dullness, wrinkling and irritation.

Past cosmetic applications of hyaluronic acid were moisturizing. However, efficacy was limited to providing only surface hydration. The large molecular weight sodium hyaluronate that was typically being used (average M.W. 160 million) prevented penetration into the deeper layers of the skin.



**DC HA Filling Complex** is a multi-functional skin care active comprised, in part, of a new form of hyaluronic acid. Use of a low molecular weight (average M.W.<10,000), highly penetrative sodium hyaluronate allows the migration of critically needed moisture to lower layers of the skin for deeper, longer-lasting hydration and improved skin-plumping benefits. In addition, this highly humectant complex contains silk-derived stimulatory factors for improved up-regulation of hyaluronic acid within the epidermis, building a lasting extra cellular matrix.

DC HA Filling Complex is balanced with antioxidants derived from olives and other phyto-minerals to ensure a secondary level of protection against free radical damage and to further combat premature signs of aging such as lines and wrinkles.

### BENEFITS

- ◆ Hydrating/ Moisturizing
- ◆ Anti-aging
- ◆ Fights free radicals
- ◆ Protective
- ◆ Immediate smoothing effect
- ◆ Highly skin compliant
- ◆ Plumping
- ◆ Long-term benefits

### APPLICATIONS

- ◆ Creams & Lotions
- ◆ Color cosmetics
- ◆ Moisturizers
- ◆ Sensitive skin
- ◆ Anti-aging
- ◆ Sun protection

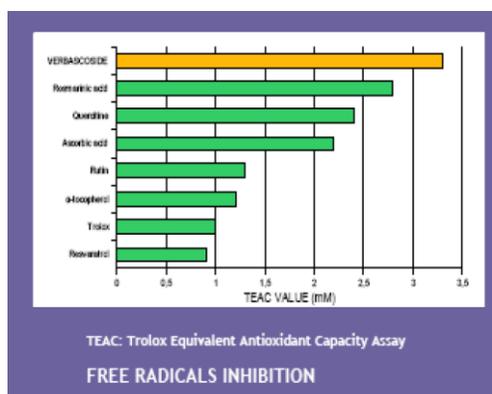
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## TYPICAL PROPERTIES

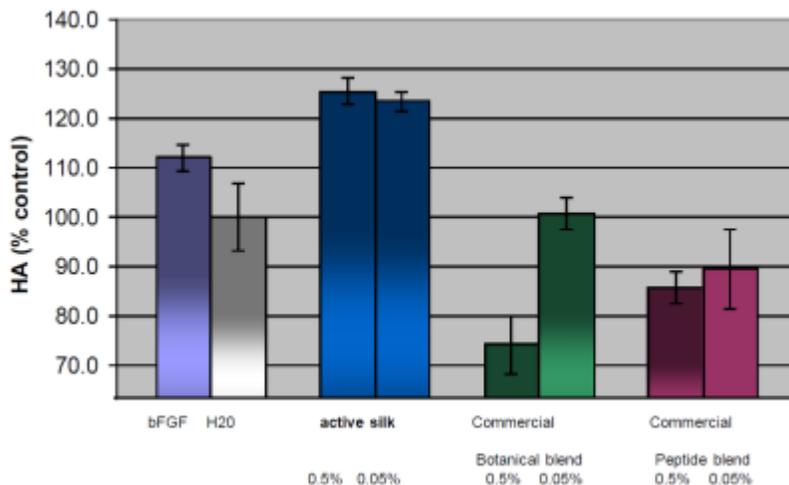
Appearance	Viscous Liquid
Color	Yellow – Light Brown
Odor	Characteristic
pH	3.0 – 5.0
Specific Gravity	1.000 – 1.200

## ANTI-OXIDANT ACTIVITY



Free radicals inhibition: Verbascoide antioxidant capacity is more than 3 times higher than traditional antioxidant molecules

## HYALURONIC PRODUCTION BY HUMAN FIBROBLASTS



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