



# Introducing...

# **symbio<sup>®</sup>quat**

**Fool-proof Conditioning  
for hair and body formulations**

now available from **kinetik**  
technologies

Dr. Straetmans has introduced its latest conditioning agent, combining natural and renewable ingredient sourcing with strategic modification for maximum performance. **symbio<sup>®</sup>quat** is modeled after the concept of a symbiotic relationship; one in which two biological systems benefit. In this case, two natural polysaccharides of different molecular weights and degrees of quaternization are combined to form an optimized product, enhancing conditioning performance and combability without weighing hair down.

- One highly quaternized amylose starch with a strong affinity to skin and hair, small enough to penetrate the cuticle
- One less quaternized, larger amylose starch that forms a protective film to seal the cuticle and lock in moisture without causing build-up

This patented blend of modified starches contained in **symbio<sup>®</sup>quat** exhibit synergistic performance properties superior to the individual conditioning agents.

**symbio<sup>®</sup>quat** is an easy-to-use, fluid conditioning agent that is completely water soluble. Used alone or in combination with other conditioners, **symbio<sup>®</sup>quat** offers new possibilities for specialized hair care and body wash applications.

### **Features & Formulation Benefits:**

- Conditioning properties for hair and skin formulations
- Reduction of combing force
- No build-up
- Improves foaming in shampoos

### **Applications:**

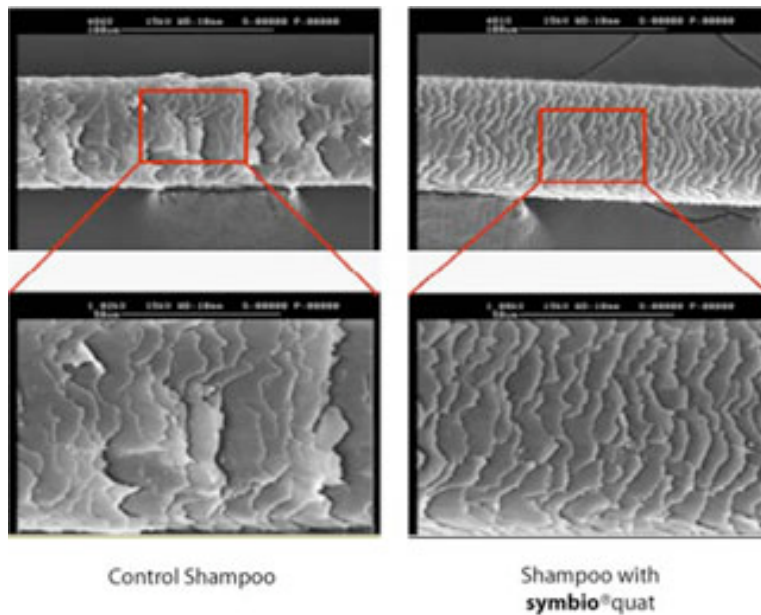
- Conditioning creams, rinses
- Leave-on conditioners
- Hair serums
- Conditioning shampoos

- Derived from natural sources
- Readily biodegradable
- Shower products



## A Closer Look

The film formed by **symbio<sup>®</sup>quat** protects and smoothes the hair surface. Washing, styling and chemical processing accelerate the deterioration of the fragile structure of the hair cuticle. The Scanning Electron Microscope (SEM) images below compare a shampoo with no conditioning agent to the same shampoo with **symbio<sup>®</sup>quat** and the effects of both on the hair cuticle.



Hair treated with the control shampoo (left) shows a cuticle that is rough and damaged. Hair treated with a shampoo containing **symbio<sup>®</sup>quat** remains smooth and healthy-looking.

Further research confirms that **symbio<sup>®</sup>quat** offers optimal conditioning performance for both hair and skin.

**Use levels:**

Fine Hair: 0.5 - 1.5%

Dry or Chemically Treated Hair: 1.0 - 2.5%

Shower Products: 1.5 - 2.5%

**INCI name:**

Water, Hydroxypropyl Oxidized Starch PG-  
Trimonium Chloride, Starch Hydroxypropyltrimonium  
Chloride

**drstraetmans**

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