



# QT-Green

Natural multifunctional hair conditioning agent

INCI : Betaine, Polyglyceryl-4-caprate, Aqua, Glyceryl acetate, Arginine

**Cationic conditioners** deposit positively charged conditioning agents onto the negatively charged hair shaft providing increased **softness** and **manageability**. Commonly these are synthetic compounds, but the cosmetic market is in need of natural solutions.

Depending on the usage, the measurable performances of **QT-Green** range from an antistatic to a real conditioning agent, increasing the moisture of hair and scalp.

## Advantages at a glance



### Formulator benefits

- Cold processable
- Easy to incorporate (water soluble)
- Suitable for transparent formulations
- Avoids the unpleasant typical scent of conditioning agents
- Increases viscosity
- Improves foam stability & quality

### Performances

- Reduces static charge on hair
- Gentle on scalp & hair
- Increases moisture, intensive care on wet hair
- No greasy after-feel on dry hair

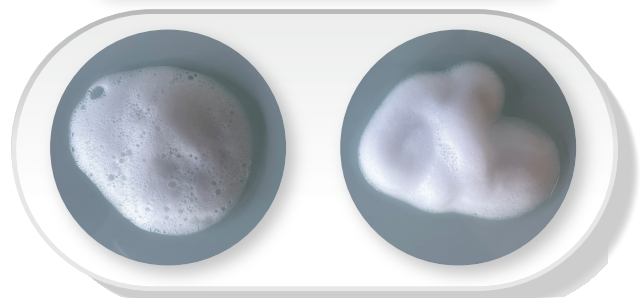
### Regulatory assets

- Readily biodegradable
- China compliant
- ISO 16128 = 1
- COSMOS approved

## Multifunctional: Enhance foam

The use of QT-Green in rinse-off formulations has no negative effect on foam, on the contrary it supports luxurious, more compact and longer lasting bubbles.

### Foam quality & Stability

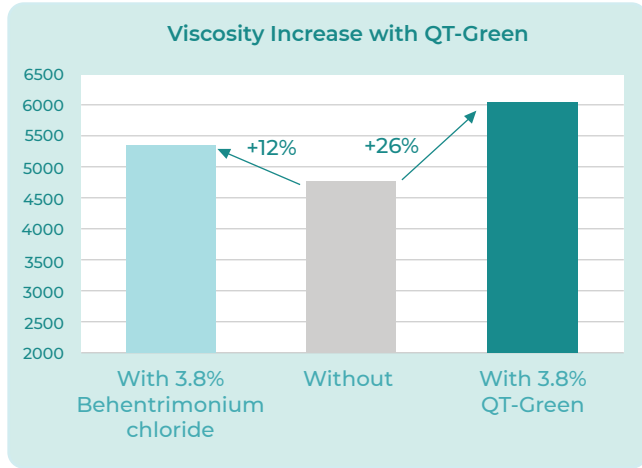


Without

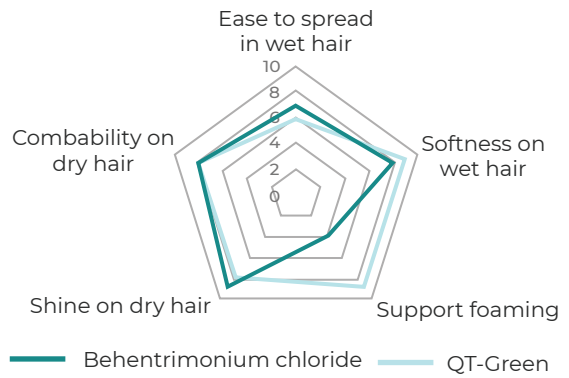
With QT-Green

## Multifunctional : Increasing viscosity

It was demonstrated that QT-Green increases the viscosity of your formulation similar to or even better than benchmark Behentrimonium and Cetrimonium chloride, as well as improves the foam quality and stability.



## Performances in haircare

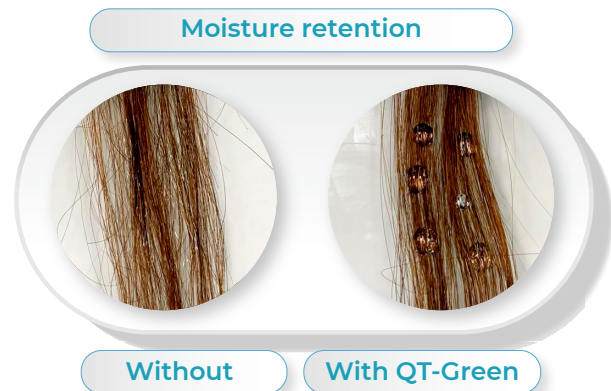


QT-Green was tested against one of the most used cationic hair conditioner: Behentrimonium chloride. QT-Green demonstrates similar performances on both dry and wet hair. QT-Green has a positive effect on the foam of the product which makes it easier to spread on wet hair formulated in hair mask.

## QT-Green, water retention

Longer water absorption time on hair strands indicates a smoother and more hydrophobic outside shaft, synonym for healthier hair structure.

QT-Green provide significantly better organized cuticles.



## Formulation example

Make me shine shampoo (internal ref:SEJ-0017AFO)

Phase	Product / INCI Name	% (w/w)
A	Glucoside 600 / Lauryl glucoside <sup>1</sup>	21.5
	Sodium cocoyl glutamate	9.5
	QT-Green / Betaine, Polyglyceryl-4-caprate, Aqua, Glyceryl acetate, Arginine <sup>1</sup>	3.8
	Water / Aqua	60.2
	Glycolic acid <sup>1</sup>	4.0
	Elix-KON PEHG / Phenoxyethanol, Ethylhexylglycerin <sup>1</sup>	1.0
	Fragrance	N.A.

Suppliers: <sup>1</sup>Connect Chemicals



## Use of the ingredient:

0.1-0.5 % as anti-static agent  
2.0-5.0% in shampoo  
3.0-10% in hair mask

## Application

- Shampoo
- Rinse-off conditioner
- Hair mask
- Leave-on spray
- Hair serum