

Soliance - Appygreen 812
Sustainable surfactant



Givaudan

engage your senses



Appygreen 812

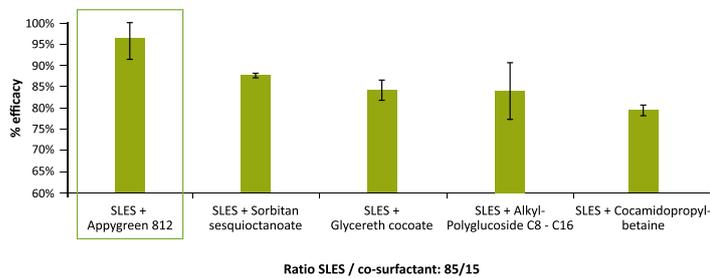
Sustainable surfactant



Surfactants are key ingredients in shampoo and shower gel formulations. Their main disadvantage is that they often irritate the skin. Over the last few years, a new trend has appeared on the market: the “sulphate-free” products. To meet these new challenges, Soliance created a mild and ecological surfactant that improves cleaning and increases the viscosity and foam volume of your formulations: Appygreen 812.

Cleaning power (Ex vivo test - benchmark)

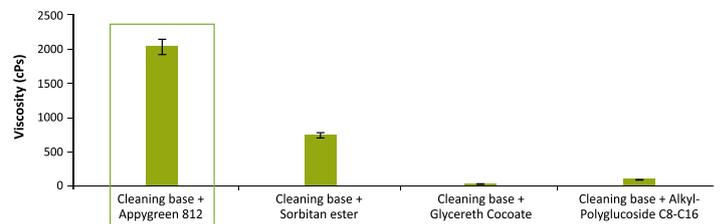
The cleaning power of Appygreen 812 was carried out on tresses of long to medium Caucasian brown hair soiled using a sebum solution. The hair was weighed and then washed for 5 minutes with a solution at 0.1% of active material containing the different surfactants system to be tested. The hair was rinsed, dried and weighed again.



Appygreen 812 acts in synergy with the SLES to optimise cleaning.

Viscosity power (Benchmark)

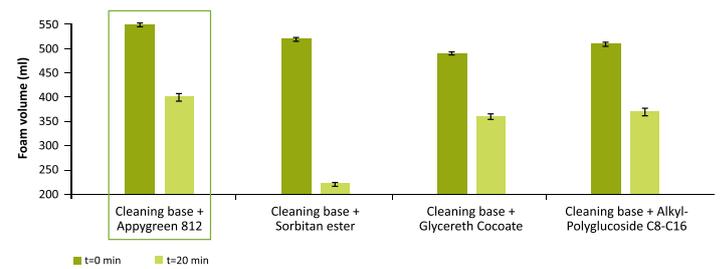
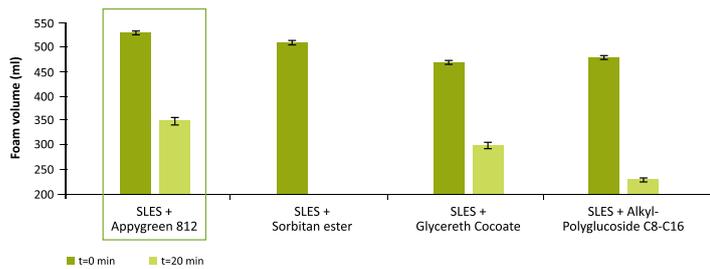
We evaluated and compared the capacity of Appygreen 812 to increase viscosity. Each formula contains 10% of active material and the mixture studied containing SLES, cocamidopropyl betaine and a co-surfactant with a ratio 56.5/18.5/25.



Appygreen 812 improves the viscosity of the formula compared to other products of the benchmark.

Effects of co-surfactants on foam volume and its stability (Standard and "sulphate-free" formula - benchmark)

We evaluated and compared the ability of Appygreen 812 to increase the quantity and stability of foam in standard and “sulphate free” formulas. The mixtures studied contained SLES and a co-surfactant with a ratio 80/20 or a mixture of cocamidopropyl betaine, sodium cocoyl glutamate and a co-surfactant with a ratio 85/7.5/7.5. We used the standardised Ross Miles method (hard water, 1% of surfactant, pH= 6.0, T= 50°C).



Appygreen 812 acts in synergy with the SLES and effectively increases the quality of foam. It is the best natural surfactant for boosting the foam of "sulphate-free" formulas.

Hair repair (Ex vivo test)

We evaluated and compared the effect of a shampoo containing 3.5% of Appygreen 812 or a placebo on the appearance of brown Caucasian hair. The hair was altered using a "Spin split hair" device during one hour. The tresses of hair were then observed along the distal zone under a Scanning Electron Microscope.

Formula	Results
Placebo	-28% split ends
Appygreen 812	-63% split ends

Appygreen 812 reduces the appearance of damaged hair.

INCI name: Decyl Glucoside (and) Xylose (and) Decyl Alcohol (and) Water.
Preservative: None.
Dosage: 0.5% to 4% | **Form:** liquid | Hydrosoluble
Cosmetic applications: Shower gel, shampoo, micellar water, rinse-off cosmetics.