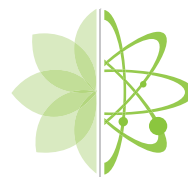




COSMOS
APPROVED



naturalis®
LIFE TECHNOLOGIES



PHYTO-COMPLEX RS

(Restructuring Plant Complex)



Bambusa Vulgaris



Equisetum Arvense



Cinchona Succirubra



Rosmarinus Officinalis



Adiantum Capillus
Veneris



Schizandra Chinensis

DESCRIPTION:

Synergic vegetal complex obtained by ultrasonic waves at low temperature. Phyto-Complex RS is an effective ingredient for hair care formulation in which the exclusive potent mix of active ingredients, in the form of plant extract, is suited to restore vigour of hair shaft.

COMPOSITION:

- Bambusa Vulgaris
- Equisetum Arvense
- Cinchona Succirubra
- Rosmarinus Officinalis
- Adiantum Capillus Veneris
- Schizandra Chinensis

COSMETIC INTEREST:

Hair cuticles can be damaged from internal (metabolic/genetic factors) or external factors (aggressive hair products) giving hair a rough look. Phyto-Complex RS is used to formulate restructuring and protective hair care products for damaged hair. It can be easily added to shampoos, lotions, balms, gels and haircare products.

ACTIVITY:

Restructuring of hair, Mineralizing of hair, Antioxidant, Protective hair

INCI NAME:

Bambusa Vulgaris Sap Extrac, Equisetum Arvense Leaf Extract, Cinchona Succirubra Bark Extract, Rosmarinus Officinalis Leaf Extract, Adiantum Capillus Veneris Leaf Extract, Schizandra Chinensis Fruit Extract,, Glycerin, Aqua.

INCI NAME (CTFA):

Bambusa Vulgaris Sap Extrac, Equisetum Arvense Leaf Extract, Cinchona Succirubra Bark Extract, Rosmarinus Officinalis (Rosemary) Leaf Extract, Adiantum Capillus Veneris Leaf Extract, Schizandra Chinensis Fruit Extract, Glycerin, Water.

CAS N°: 91771-33-4, 71011-23-9, 84776-28-3, 84604-14-8, 84649-72-9, 223748-53-3 , 56-81-5

EINECS N°: 294-923-8, 275-123-8, 283-953-7, 283-291-9, 283-457-0, -----, 200-289-5

SPECIFICATION:

Density (at 20° C):	1,12 ± 0,010
pH:	6,0 ± 0,5
Dry matter:	3 – 5%
Appearance:	Clear liquid
Colour:	Dark amber
Odour:	Slight aromatic
Refractive index:	1,40 – 1,44
Bacteria:	< 100 germs/ ml
Yeast & Moulds:	< 10 germs/ ml

PHYTO-COMPLEX RS (Restructuring Plant Complex)



PRESERVATIVE:

Benzyl Alcohol (0,6%), Sodium Benzoate (0,18%), Potassium Sorbate (0,12%)

SOLUBILITY:

Soluble in water phase

RECOMMENDED USAGE:

Use level: 3-5%

Formulating pH range: any value

Formulating temperature range: 20 to 75°C

CERTIFICATION STATUS:

Natural product

ECOCERT Approved

COSMOS Approved

GMOrganisms

Not tested on animals

SAFETY & TOXICITY

Reference COMMISSION REGULATION (EC) No 987/2008 of 8 October 2008 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

- non-irritating
- non-toxic

PACKAGING:

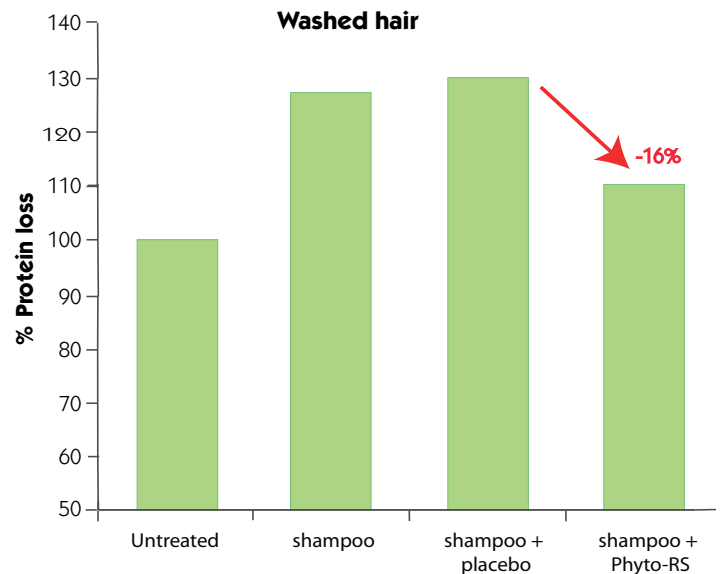
10 kg Plastic drum

SHELF LIFE:

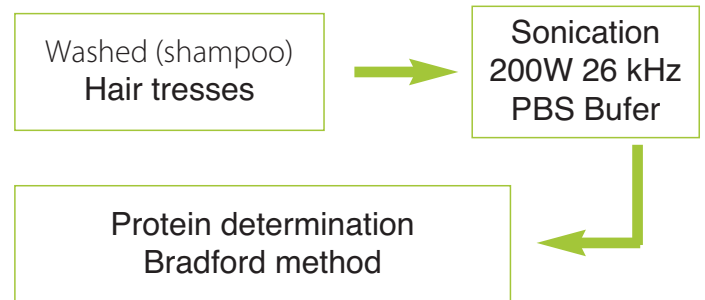
18 Months away from light and heat source, closed containers.

CLAIM SUBSTANTIATION:

IN VIVO TEST: Hair tresses were pre-treated with an aggressive shampoo and the same containing 3% Phyto-RS, a placebo (the same solvent vehicle but without plant extracts). All tresses was subjected to stressful procedure with ultra-sound probe (200W 26 kHz) and evaluated the quantity of keratin protein released in the medium (PBS)

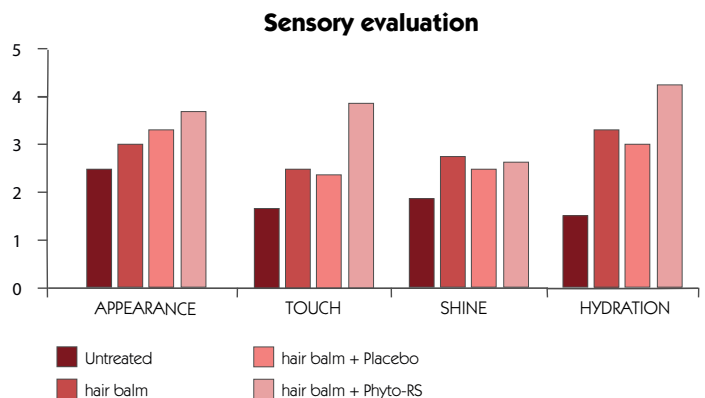


Experimental Procedure



SENSORY EVALUATION

Experts evaluated a panel composed by 20 people and assessed sensorial properties of hair after cleaning with aggressive shampoo containing 3% PHYTO-RS vs. Placebo



Data indicates that Phyto-Complex RS is able to determinate an improvement of aesthetic and sensorial properties of hair