

PHYTO-COMPLEX HL

(Anti hair loss Plant Complex)

DESCRIPTION:

Synergic vegetal complex obtained by ultrasonic waves at a low temperature.

Phyto-Complex HL is an effective anti-hair loss plant extract complex that strong stimulating activities of the bulb with "hormone-like" activity, protects the scalp and shows a good antiseptic activity.

COMPOSITION:

- **Humulus Lupulus** ("estrogenic like" activity, prevent hair loss)
- **Cimicifuga Racemosa Root** ("estrogenic like" activity, prevent hair loss)
- **Punica Granatum** (antioxidant)
- **Trigonella Foenum-Graecum** (soothing and antioxidant)
- **Salvia Officinalis** (prevent hair loss)
- **Serenoa Serrulata Fruit Citrus** (prevent hair loss)
- **Limonum Peel Extract** (stimulate microcirculation)

COSMETIC INTEREST:

Phyto-Complex HL is used as a powerful stimulant of the hair bulb. It can be easily added to shampoos, lotions, balms, gels and haircare products.

ACTIVITY: Anti-hair loss, Stimulates hair bulbs, Hormone-like activity, Protecting of the scalp, Antiseptic

INCI NAME:

Humulus Lupulus Extract, Cimicifuga Racemosa Root Extract, Punica Granatum Extract, Trigonella Foenum-Graecum Seed Extract, Salvia Officinalis Leaf Extract, Serenoa Serrulata Fruit Extract, Citrus Limonum Peel Extract, Glycerin, Aqua.

INCI NAME (CTFA):

Humulus Lupulus (Hops) Flower Extract, Cimicifuga Racemosa Root Extract, Punica Granatum (Pomegranate) Extract, Trigonella Foenum-Graecum Seed Extract, Salvia Officinalis (Sage) Leaf Extract, Serenoa Serrulata Fruit Extract, Citrus Medica Limonum (Lemon) Peel Extract, Glycerin, Water.

CAS N°: 8060-28-4, 84776-26-1, 84961-57-9, 84625-40-1, 84082-79-1/8022-56-8, 84604-15-9, 84929-31-7, 56-81-5

EINECS N°: 232-504-3, 283-951-6, 284-646-0, 283-415-1, 282-025-9/-, 283-292-4, 284-515-8, 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

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 free from Genetically Modified Organisms

Allergen free

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 drums

SHELF LIFE: 18 Months away from the light and heat source, closed containers.

CLAIM SUBSTANTIATION:

Clinical study on 9 male volunteers suffering from hair thinning at the front and upper part of the scalp and with a baldness classified as type IV of Norwood scale:



Phototrichogramme and digital imaging analysis demonstrate as treatments (one application a day with associated massage of the scalp for 5 minutes) with a hydro-alcoholic lotion containing 6% of Phyto-complex HL for 8 weeks produced a significant improvement of the hair volume and hair regrowth speed and an increase of the hair number in anagen phase (growth phase):

| Phototrichogramme and digital imaging analysis: | T0 | T = 8 weeks |
|--|-----------|--------------------|
| Percentage of hair in anagen (growth) phase: | 78,4 | 89,3 (+14%) |
| Percentage of hair in catagen (rest) phase: | 17,2 | 10,1 |
| Percentage of hair in telogen (loss) phase: | 4,4 | 0,6 |

Increase in hair density after 8 weeks:

| | |
|---------------------------------|------|
| Increase in visible hair volume | +61% |
| Hair regrowth speed | +28% |



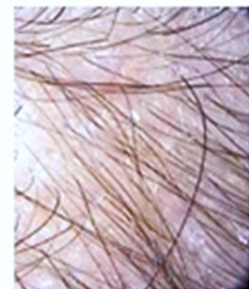
T0



T=8 weeks



T0



T=8 weeks