

GINSENG PHYTOSOME®

SKIN ELASTICITY IMPROVER

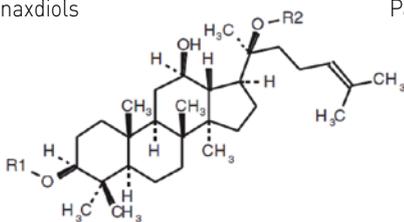
CHARACTERISTICS

GINSENG PHYTOSOME®	AVAILABLE DOCUMENTATION
Gravimetric content: 30-40% of ginseng typical constituents Form: light brown-yellow powder Stability: retesting date after 5 years Levels of use: up to 2% Water content: < 3% Solubility*: Ethoxydiglycol, C12-15 Alkyl Benzoate, Triticum vulgare (Wheat Germ Oil), dispersible in water	Botanical Certificate Method of analysis Reference Standards Declaration GMO free Safety Data Sheet Published Literature Confidential documentation

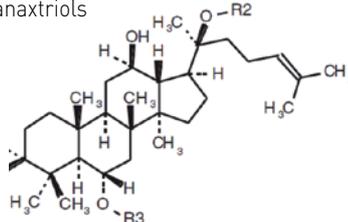
* solubility has been assessed according to EP

PERSONAL CARE

Panaxdiols



Panaxtriols



SAFETY DATA*

- In all the safety trials conducted to date, Ginseng Phytosome® has shown a good tolerability and can therefore be considered innocuous for the foreseen use.¹
- Topical application of Ginseng Phytosome® (at a 3% concentration in an aqueous gel) showed good tolerability and no cutaneous sensitization on 25 healthy volunteers.² The products can be therefore considered innocuous for the foreseen use.

FORMULATION EXAMPLES

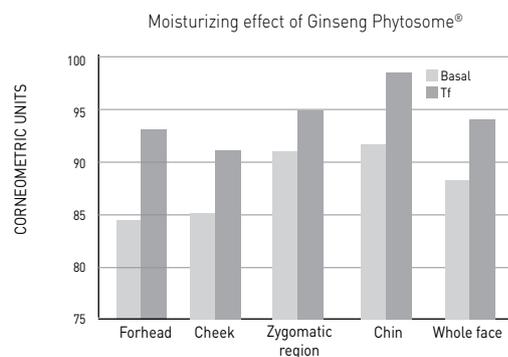
RINSE OFF HAIR CONDITIONER		Formulation Advice
Ginseng Phytosome®	1.00%	ALSO SUITABLE FOR: Skin care products Tonic lotions Hydrating treatments Hair care Shampoos Conditioners
Cetearyl Glucoside	2.50%	
Cetyl alcohol	2.50%	
Dimethicone	3.00%	
Aqua (Water)	to 100	
Preservatives	q.s.	
Quaternium-52	2.00%	
PEG-15 Tallow Polyamine	3.00%	
Hydrolyzed Wheat protein	3.00%	
Fragrance	0.30%	
Citric acid	0.30%	The physico-chemical characteristics of Ginseng Phytosome® and its ready dispersibility in water and oil virtually pose no limitations to the pre- parations of cosmetic formulations. Ginseng Phytosome®, dispersed in aqueous phase by a homomixer or a turboemulsifier, is suitable for incorporation into monophasic and biphasic systems at a temperature lower than 40°C.

* All safety trials are compliant to EU regulation 1223/2009.

The ingredients described herein are offered for consideration for use in personal care products. The information provided describes historical use, ingredient activity and other information that may be relevant to their use in such products. How each ingredient would contribute to a particular product would be formulation specific. Furthermore please note that this documentation is available for various countries all over the world and hence it may contain statements not applicable to your country.

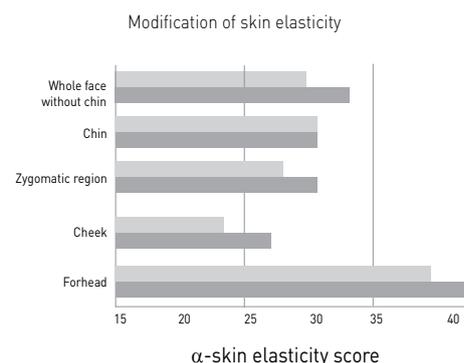
MOISTURIZING EFFECT

- Ginseng Phytosome® has been tested on a total of 60 healthy subjects (54 female and 6 male volunteers, aged between 17 and 88 years) who were divided into different groups depending on the specific experimental procedure applied.³
- The application of Ginseng Phytosome® (ampoules of 10 mg/ml, applied daily) showed to ameliorate the hydration of the corneous layers in different face areas, corresponding to an increase of the corneometric parameters in the skin. Results showed to be statistically significant. This finding, for long term application in elder subjects (was confirmed in young subjects (mean age 27 years) within 60 min from the application (acute treatment).



COLLAGEN SYNTHESIS

- The degree of hydration of deep dermal layers was also evaluated in a further group of subjects (mean age 46). The elasticity coefficient of the skin was measured, demonstrating a statistically significant increase of the "alfa" coefficient, which is directly related to the actual elasticity of the skin.³
- These instrumental findings have been confirmed in two additional separated trials conducted on 20 subjects each (treated for 30 days), that showed statistically significant amelioration of various dermatological and cosmetic parameters (scored in arbitrary units from 0 to 4) such as hydration, trophism, elasticity or dryness of the skin of the face.



MECHANISM OF ACTION

- At least two interacting mechanisms of action can be observed. The hydration of the superficial corneous layer is related to the liposomal-like properties of the phospholipids of the Phytosome®. Ginseng Phytosome® possesses a transdermic action which can be ascribed to the ginseng saponins present in the phospholipidic delivery system. This is demonstrated by the objective improvement in the cutaneous elasticity and tone, further confirmed by the subjective scores after long term application. This property could be related to increased blood perfusion "with dilatation of capillaries and arterioles, leading to an improved delivery of nutrients to the skin".⁴ This seems to be also confirmed by the regional increase of cutaneous temperature of the hemiface after application of Ginseng Phytosome® in female subjects older than 40 years.³

DID YOU KNOW...

- For thousands of years, extracts of *Panax ginseng* C.A. Meyer have been systematically used for the prevention or treatment of a variety of conditions frequently associated with ageing. For centuries, women collecting and selecting ginseng roots were noticed to have particularly nice hands, due to the fact that handling these roots has helped them to keep the skin of their hands young and smooth. Indena, as the larger producer of ginseng extract, contributed to document the traditional evidence and the use of this in the modern functional cosmetic.

TRADE NAME	INCI (PCPC)	INCI (E.U.)	EINECS N.	CAS N.	INDENA CODE
Ginseng Phytosome®	Lecithin (syn. Phosphatidylcholine) (and) Panax Ginseng Root Extract	Lecithin (syn. Phosphatidylcholine) Panax ginseng Root Extract	232 - 307 - 2 296 - 193 - 6	8002 - 43 - 5 92347 - 06 - 3	9033800

1. Data on file, Inverni della Beffa report 13/88, 1988. - 2. Data on file, University of Urbino, Italy, 1992. - 3. Bombardelli E., Curri S.B., Gariboldi P.: "Cosmetic utilization of complexed of Panax Ginseng saponins with phospholipids in the Phytosome® form" - *Fitoterapia* vol. LX, Suppl. to N.1, 1989. - 4. Chang J., "Ginseng and cosmetics" *Cosmetic & Toiletries* 92, 50-57, 1977.

