**Description (150154.100.2)**

Acacia Collagen™ PF is plant-derived substitute for animal collagen that is obtained from Acacia seyal.

- Light yellowish liquid
- Water-soluble
- Similar moisturising properties to animal collagen
- Complex mixture of arabinogalactan oligosaccharides (90-99%), arabino-galactan protein (ca. 1%) and glycoprotein (ca. 1%)

**INCI Name**

US. Water, Propylene Glycol, Acacia Seyal Gum Extract, Phenoxyethanol, Potassium Sorbate, Ethylhexyl-glycerin

EU. Aqua, Propylene Glycol, Acacia Seyal Gum Extract, Phenoxyethanol, Potassium Sorbate, Ethylhexyl-glycerin

(Please refer to proprietary composition declaration for up-to-date INCI listing.)

**Properties**

- Acacia Collagen™ PF was developed to replace animal collagen in cosmetics which was used for its moisturising and film forming properties. Acacia Collagen™ PF has the following properties:
- Moisturising and moisture-retaining (in vivo claims data)
- Protective film forming, nutritive, astringent

**Recommended Applications & Use Levels**

**Applications:** Skin care products to improve the moisture content of the skin; hair care, especially for dry, damaged or ageing hair

**Recommended use levels:** 1-5%
Activity

Moisturisation

- An independent laboratory tested the effect of water balance in a blind trial comparing animal-derived collagen with plant-derived Acacia Collagen™ PF
- Moisturising effect study was done on 10 healthy female volunteers, aged between 41-50
- Physico-chemical moisturisation at 1 and 3 hours after application of a cream containing Acacia Collagen™ PF, compared with that containing animal collagen and an untreated zone, using a Corneometer on dry skin on the forearm

Results & conclusion

- The two creams containing either 10% animal collagen or 10% Acacia Collagen™ PF showed virtually identical results
- An increase in the cutaneous moisturising 1hr and 3hrs after application by 26% (+/-6) and 21% (+/-5) respectively
- The moisturising rate variations obtained at 1hr and 3hrs after application of the product with Acacia Collagen™ PF were statistically significant
- No intolerance reaction (irritation or allergy) was observed during the test

Formulation Recommendations

- Add at the end of production process; do not heat above 45°C
- A pH range of 4-7 is recommended in the final formulation

Safety & Regulatory

REACH: Compliant with the REACH regulation (EC) N°1907/2006 and its amendments

Other Versions

Also available Acacia Collagen™ in Glycerin (400221.00.2)

Disclaimer: Please be aware that the listed properties medicinal or otherwise that have been sourced from literature should act as value-added information only. No proof of these statements by testing or otherwise will be provided by Cosmetochem (this excludes test data generated by Cosmetochem in support of our specific actives range). Please be aware that the use of any claim on cosmetic products, is the sole responsibility of the customer and is regulated by your local Regulatory Body.