

# Bio-nutryl

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## **INCI name**

Amniotic Fluid

## **Description**

BIO-NUTRYL is fresh amniotic fluid selected and controlled by veterinarians, obtained from bovine origin. It is free from hormones and estrogens and it is also purified by sterile filtration.

The result is a natural physiological media perfectly suitable for cosmetic treatments.

## **Effects in Cosmetic Products**

BIO-NUTRYL is a classical biological extract for the treatment of skin and hair:

- It is a natural detergent for the skin, without aggressive action.
- Natural astringent and emulsifier
- Trans-cutaneous diffusion agent: it helps the penetration of other active ingredients associated
- Natural solvent for ionized products, thanks to its rate of electrolytes
- Soothing action
- Provides moisturization and nutrition to the epidermis

It is specially indicated for face, hair and body treatments such as:

- Hydration treatments
- Nutritive preparations
- Cleanser milks
- Shock treatments in ampoules
- After-shave products
- Hair lotions
- Oily skin treatments
- Treatment make-ups

## **Dosage – Solubility – Processing**

A- DOSAGE:

The normal dosage is from 5 to 10%, but it also could be used pure at 100% in shock treatments in ampoules and as solvent for a by-phase preparation.

B- SOLUBILITY:

BIO-NUTRYL is soluble in water and alcohol (max. 300). Insoluble in oils.

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## C- PROCESSING:

The active is compatible with most of the raw materials normally used in cosmetics, with a pH range from 5 to 8. It is compatible with temperatures of 60 °C. Nevertheless, it is the duty of the formulator to make sure of the stability of the formulae with the necessary tests.

It would be preferably incorporated into cosmetic preparations during the finishing process, for example, in emulsions at the cooling phase. Keep on stirring until reaching a perfect distribution and homogeneity.

## Analytical Data

- APPEARANCE: Clear liquid with a light yellow color
- pH: 6,90 – 7,60
- Dry extract: 0,80 – 2,10
- Relative Density (at 20 °C): 1,010 – 1,019
- Refractive index (at 20 °C): 1,340 – 1,350
- Total Nitrogen: 0,05 – 0,14%
  
- PRESERVATIVES: EC & USA approved
  
- MICROBIOLOGY: Absence
  
- TOLERANCE: Good
  
- STORAGE: Store at room temperature, dry and away from light.

If original container is opened, to avoid secondary microbiological contamination handle with special care and keep refrigerated.