



APIMAST

Technical Data Sheet

Apimast is a multifunctional pure propolis formula with exceptional quality. Apimast is a cosmetic product designed for topical use on the animal udder to provide optimum care and protection.

Function

- Moisturises, lubricates, and softens the skin of the udder.
- Protects the skin from exposure to dirt and mechanical stress due to milking.
- Supports the physiological protective mechanisms of the teat.

Applications

Apimast is a cosmetic product for use in dairy ruminants, cows, sheep, and goats.

It protects the physiological protective mechanisms of the teat so that the teat becomes more resilient to environmental stressors.

Formulation

Apimast is a **100% patented standardized liquid propolis extract**, ready for direct topical application on the udder.

Product information

- Appearance: yellow to light-brown solution
- INCI/CTFA-Declaration: PEG-8, soybean lecithin, propolis extract
- **Active ingredient content:** (a) para-coumaric acid; 100 - 1,300 µg/mL; (b) trans-ferulic acid; 75 - 800 µg/mL; (c) trans-caffeic acid; 25 - 300 µg/mL; and (d) 2-phenylethyl trans-3,4-dihydroxycinnamate (CAPE); 40 - 400 µg/mL
- Preservative: None

Why is Apimast different?

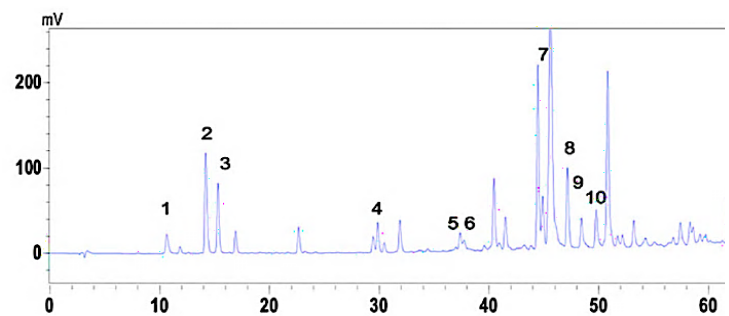
Apimast is a unique and standardized propolis extract from poplar-type propolis from Europe. Apimast results from the innovative extraction method described in the patent "Liquid propolis extract, its formulation, and use thereof" and is produced by Apiotix Technologies. This approach allows for more effective extraction of bioactive compounds without the need for harsh solvents like ethanol.

These compounds work synergistically to protect skin and udder health and enhance the skin barrier more than each compound alone. Propolis contains natural waxes, resins, and fatty acids that condition and nourish the skin, leaving it supple and smooth.

PEG 400 and lecithin are constituents of the extract, and when used together, they also contribute to moisturizing, soothing, and protective care.

Unlike any other propolis product on the market, each batch of Apimast is analyzed and standardized to provide reproducible efficacy and safety.

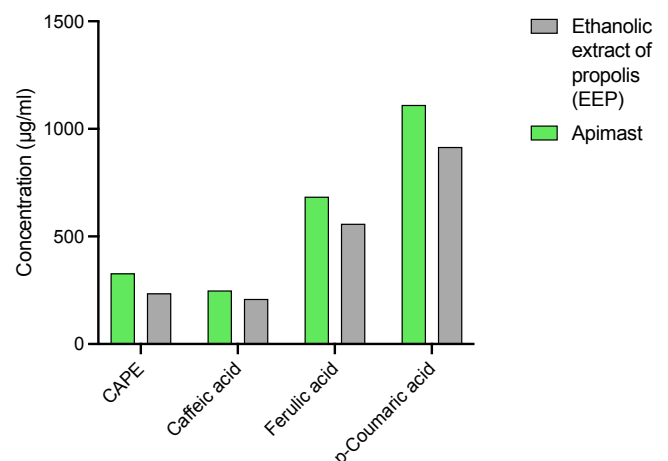
Chromatographic profile of Apimast, with ten markers* of quality (HPLC-UV)



* (1) caffeic acid, (2) *p*-coumaric, (3) ferulic acid, (4) *trans*-cinnamic, (5) kaempferol, (6) apigenin, (7) chrysin, (8) pinocembrin, (9) CAPE, (10) galangin.

A patented method of extraction yields 20-40% more phenolic compounds (Patent N.º WO/2020/169425).

Quality marker concentrations in Apimast vs. standard ethanolic extract of propolis (EEP)



How does Apimast work?

Apimast is a **cosmetic solution for udder care**, focusing on skin protection and conditioning. By leveraging the natural properties of propolis and other gentle ingredients, it supports the udder's skin health, especially the teat, which is the most exposed and stressed area.

Benefits for Udder Care

- 1. Improves Skin Health:** Regular use of Apimast keeps the udder's skin hydrated, conditioned, and protected.
- 2. Supports Hygiene:** By forming a protective barrier, it prevents the accumulation of external contaminants on the skin.
- 3. Prevents Dryness and Cracks:** Maintains the skin's

elasticity and resilience, reducing the risk of irritation or damage.

4. Enhances Milking

Comfort: A smooth and healthy udder surface minimizes discomfort for both the animal and the milking process.



Apimast

Instructions for use



Application Guidelines

1. Preparation

- Ensure the udder and teats are clean and dry before application.
- If necessary, gently clean the udder with a damp cloth and mild soap, and then pat dry with a clean towel.

2. How to Apply

- Dispense a sufficient amount of Apimast to cover the udder or specific areas requiring care. Apimast applicators are designed for precise application.
- Gently massage the product into the skin of the udder and teats using

circular motions. Pay special attention to the teats, as they are the most exposed and stressed areas.

3. Frequency of Use:

- For daily care: Apply once a day, ideally after the milking process.
- For intensive care: Apply twice daily (morning and evening) or as needed to provide extra protection and moisture.

4. After Application:

- Allow the product to absorb naturally into the skin. No rinsing is required.
- If milking is performed after application, ensure the teats are clean and dry before milking.

5. Important Warnings

Apimast is a cosmetic product and not a veterinary medicine. In case of mastitis or other health issues, consult a veterinarian for professional guidance.

Questions? We are here for you!

- **Apiotix Technologies** is a biotech company established in 2020 in Split, Croatia. It is a spin-off from Hedera, a family-owned SME specializing in honeybee products, which has been on the market since 1989.

Our **animal health team providing technical support** includes:



- **Jelena Šuran, DVM, PhD (CEO)** is a veterinary pharmacologist specializing in years of experience in this field, particularly in topical products for dairy cows. Previously, she worked as an Associate Professor at the Department of Pharmacology and Toxicology at the Faculty of Veterinary Medicine, University of Zagreb (Croatia).



- **Prof. Goran Bačić, DVM, PhD**, is an expert veterinary clinician specializing in dairy herd health and management, with over 30 years of experience. He is a Full Professor at the Reproduction and Obstetrics Clinic and Ambulatory Clinic at the Faculty of Veterinary Medicine, University of Zagreb (Croatia).



- **Prof. Tomislav Mašek, DVM, PhD**, is an expert in farm animal health and nutrition, with over 20 years of experience in the field. He is a Full Professor at the Department of Animal Nutrition and Dietetics at the Faculty of Veterinary Medicine, University of Zagreb (Croatia).

