Avenaseed

Product Name: Avenaseed

Plant Name: Oat

Scientific name: Avena sativa





We eat oat-based food products in our daily lives like breads, biscuits, cookies, probiotic drinks, breakfast cereals, flakes.











Health benefits of Oats

Avenaseed

- A nutrient-rich grain
- Lower Cholesterol Levels
- Improve Blood Sugar Control
- Help You Lose Weight



Reference: [1] 9 Health Benefits of Eating Oats and Oatmeal, https://www.healthline.com/nutrition/9-benefits-oats-oatmeal



Oats on skin

Avenaseed

Oats are effective in a variety of **dermatologic inflammatory diseases** such as pruritus, atopic dermatitis, acneiform eruptions, and viral infections. Additionally, oats have a skin protection function against ultraviolet rays.

- Psoriasis
- Atopic dermatitis
- Anti-itch activity
- Skin protection
- Moisturizing
- Acneiform eruptions
- Antiviral activity
- Antifungal activity



Reference: [1] Pazyar, Nader, et al. "Oatmeal in dermatology: a brief review." Indian Journal of Dermatology, Venereology, and Leprology 78.2 (2012): 142.





Around 2,000 BC

People in Egypt and the Arabian Peninsula started to use oats in skin care around 2000 BC, where oat bath was a luxury for the rich.

■ 27 BC – 476 AD (Roman Empire)

In Roman times, oats were also used as a topical cleanser and skin treatment. Numerous references in Roman medical literature have reported the use of oatmeal in medicine.

Actually, several studies have proved that oats bath is a good soothing treatment as well as a nonirritating, cleansing formulation for inflamed, itchy skin.

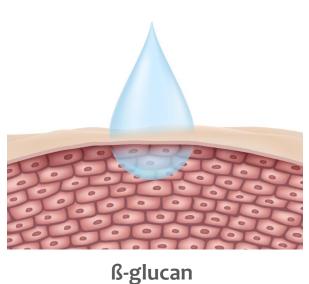
Reference: [1] Kurtz, Ellen S., and Warren Wallo. "Colloidal oatmeal: history, chemistry and clinical properties." Journal of drugs in dermatology: JDD 6.2 (2007): 167-170.

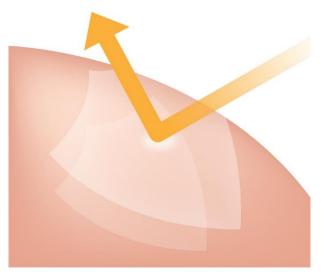


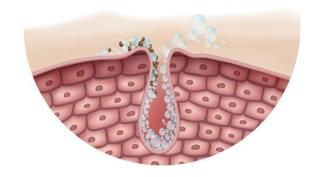
Chemical composition of Oats

Avenaseed

These various clinical properties of oats are derived from its enriched chemical composition. Its abundant starches and ß-glucan are responsible for the skin hydration and helps the skin hold water and prevent water loss. The different types of phenols contribute to its antioxidant and anti-inflammatory activity and reduce UV-meditated damage in the skin. In addition, its high concentration of saponins provide the cleansing activity in oats.







phenols

saponins

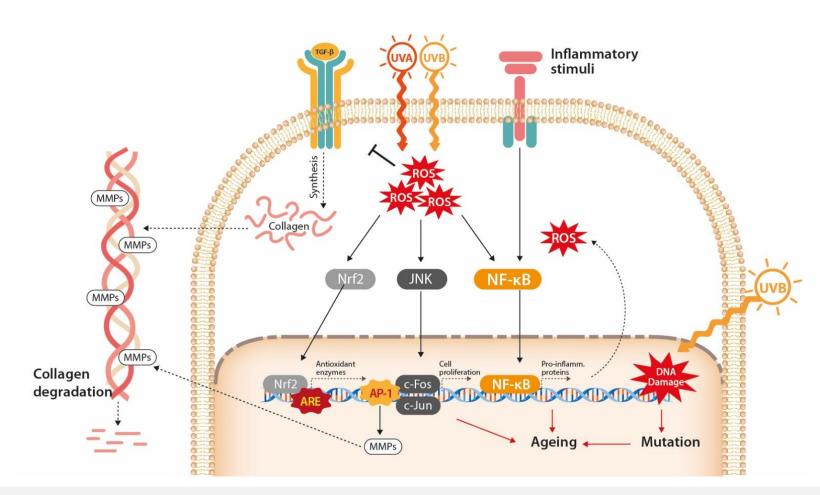
Reference: [1] Kurtz, Ellen S., and Warren Wallo. "Colloidal oatmeal: history, chemistry and clinical properties." Journal of drugs in dermatology: JDD 6.2 (2007): 167-170. [2] Dimberg, Lena Häll, et al. "Stability of oat avenanthramides." Cereal chemistry 78.3 (2001): 278-281.



In Vitro efficacy Anti-oxidant Anti-inflammation **Anti-wrinkle Effects** Hair Growth Effects



Our skin is under attack from many factors in daily life, such as UV, pollution and stress. These factors increase the Reactive Oxygen Species, which plays a major role in the skin aging process.



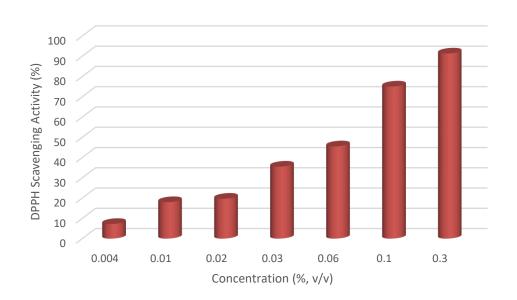


Antioxidant Effects of Avenaseed

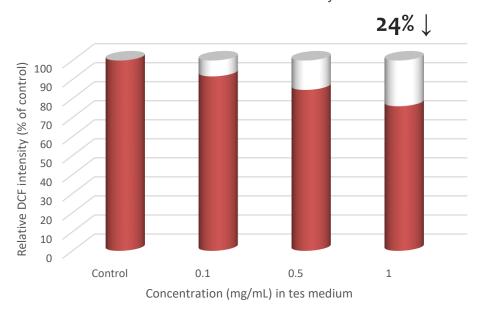
Avenaseed

When testing for free radical scavenging activity, it was confirmed that as the concentration of the Avenaseed increases, the inhibition activity also increases along with it. Avenaseed was also found to reduce oxidative stress by 24%.

Free Radical Scavenging Activity



ROS Inhibition Activity

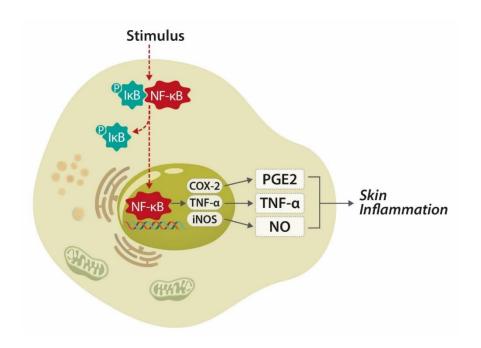




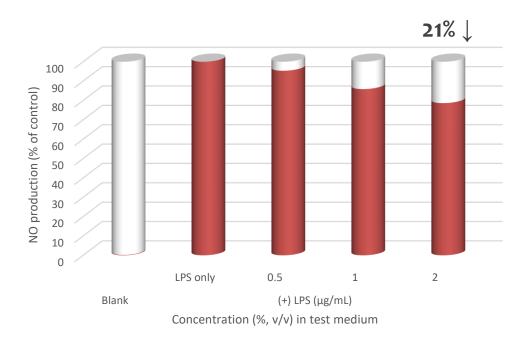
Anti-Inflammatory Effects of Avenaseed

Avenaseed

According to efficacy evaluation result, Avenaseed showed anti-inflammation by inhibiting Nitric oxide.

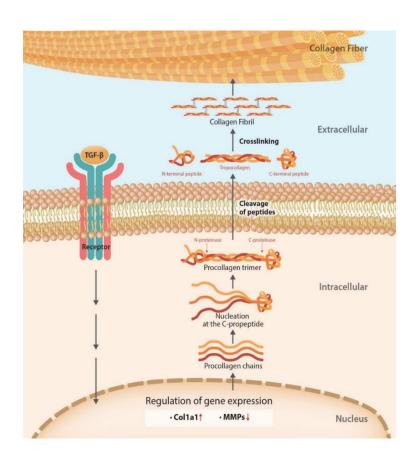


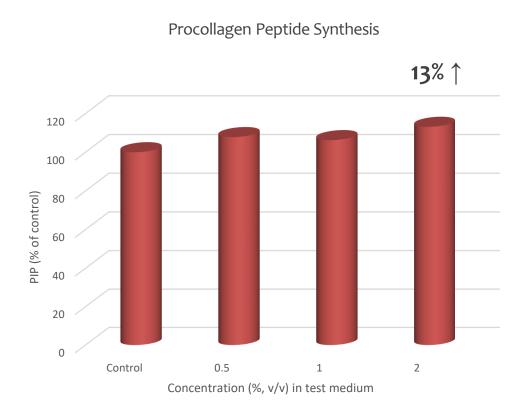
NO Synthesis Inhibition



Skin Ageing and Wrinkle Formation

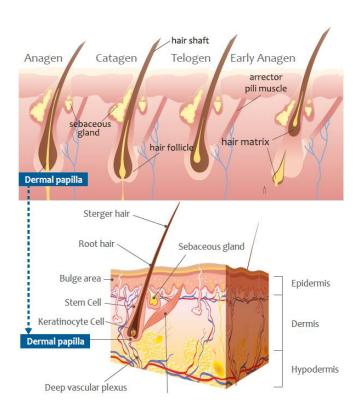
When treating 2% Avenaseed, we found that collagen production increased by over 13%. This shows its excellent anti-wrinkle property.

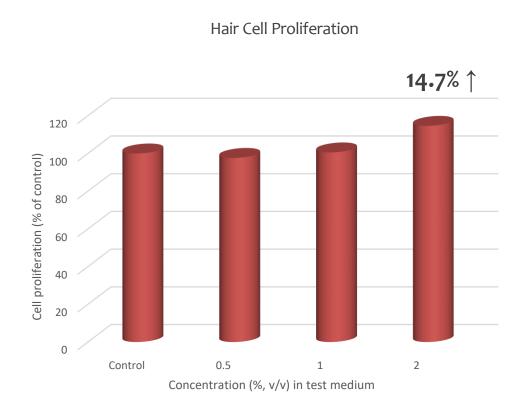






To evaluate the hair growth effects of Avenaseed, 2% Avenaseed was added to the test medium, and the result confirms its significant hair-growth efficacy by increasing hair cell proliferation by 14.7%.





Summary

- Grow in UK
- Multi-efficacy
- Various formulations of oats extracts





Product Information

Product Name: Avenaseed

• INCI name: Avena Sativa (Oat) Seed Extract

• **IECIC 2015:** AVENA SATIVA EXTRACT

• **Dosage:** 1 – 3%

Efficacy: anti-oxidant, anti-inflammation, anti-wrinkle,

and hair growth effects.













Address
Unit 8F Edgefield Road Industrial Estate,

Unit 8F Edgefield Road Industrial Estate, Loanhead, EH20 9TB