

CP Oat Avenanthramides

CP Oat Avenanthramides

Manufacturer
Ceapro Inc

INCI Name
Glycerin; 49.9%, Water; 46.9%,
Oat (Avena sativa) extract; 3%,
Potassium sorbate; 0.2%

CAS **EINECS**
56-81-5 200-289-5
8401-22-60 281-672-4
590-001 203-768-7

Glycerin
Oat extract
Potassium sorbate

Oat
cosmetics
The natural ingredient house

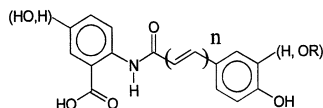
Colloidal oatmeal has been used for centuries for soothing the skin. In 2003, colloidal oatmeal was recognised as a skin protectant for the relief of a variety of dermatoses by the FDA (June, 2003). Ceapro scientists were the first to discover the link between the traditional use of colloidal oatmeal for alleviating red, itchy and inflamed skin and naturally occurring avenanthramides in oats.

Of all the cereal grains avenanthramides are unique to oats. In both UV and chemical induced erythema models involving 25 patients, concentrations in a final formulation of as little as 0.5% provided significantly proven clinical relief. Powerful natural antioxidant and anti-irritant properties make them ideal for skin, hair, baby, sun care, toiletries and cosmetics.

Physical Properties

A group of naturally occurring polyphenols found in oats

- Fully soluble in aqueous, oil/water and water/oil systems
- Yellow to amber colour
- Low odour



Activity and Benefits

Possesses superior anti-irritant and antioxidant properties

Anti-irritant active component has been identified as Avenanthramides

Avenanthramides are analogues of Tranilast™, which is a potent anti-histamine

Avenanthramides can significantly suppress histamine as low as 0.5ppm

Effectively reduces redness (erythema) at as low as 0.45ppm

Possesses powerful non-steroidal anti-inflammatory to relieve itching and reduce inflammation

Standardised on its active principle of 100ppm Avenanthramides

Product Suitability

Exhibits highly effective anti-irritant properties at usage levels as low as 0.5%

Suitable for all water based cosmetic product applications and shown to suppress skin and hair lipid peroxidation

Effectively protects DNA damage from UV exposure

Solubility

Suitable for all water-based product forms (aqueous, aqueous/alcohol, emulsions, etc.)

Technical Specification

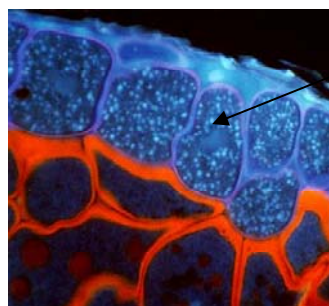
Colour	Yellow to Amber
Avenanthramides AF-1, AF-2, AF-6	100 to 120 ppm
Protein	≤2.0 %
pH @ 25°C	2 to 8
Turbidity @ 25°C (NTU)	<20
Preservative	0.2% (w/w) Potassium sorbate

Product formulated in glycerol and water (1:1 w/w)

Microbiological Properties

Total Aerobic Microbial Count	<100 cfu/mL
Total combined yeast and mould count	<100 cfu/mL
Escherichia coli	Not detected
Pseudomonas aeruginosa	Not detected
Salmonella spp	Not detected

Cross-section of an oat kernel showing avenanthramides auto-fluorescing under UV light



Avenanthramides

Product Application Guide

Facial Skin Care	Moisturisers	✓
	Sensitive Skin Care	✓
	Exfoliators, Cleansers & Masks	✓
	Treatments, Lip & Eye Care	✓
	Men's Care	✓
Body Care	Body Lotion/Cream	✓
	Water Based Gels	✓
	Hand & Foot Care	✓
	Massage & Body Oils	
	Talcs & Dusting Powders	
Hair Care	Shampoos	
	Conditioners	
	Treatments	✓
	Scalp Care	✓
	Styling	
Sun Care	Lotions & Creams	✓
	Oils	
	Mousses/ Water Based Sprays	✓
	After Sun	✓
Decorative Cosmetics	Foundations	✓
	Pressed Powders	
	Mascara	
	Lipstick & Glosses	
Personal Care & Hygiene	Liquids/Gels	✓
	Anti-perspirants & Deodorants	✓
	Bath & Shower Liquids	✓
	Shaving & Depilatory	✓
	Oral Care	✓
	Baby	✓

CP Oat Avenanthramides

For further information visit

www.oat.co.uk
T: +44 (0) 2380 767228

Recommended Usage

Recommended usage: 1 to 5%
Formulating pH range: 5 to 8
Formulating temperature range: 25 to 50°C

Pack Sizes

1, 5 and 20 kg

Certification Status

ECOCERT NATURAL Registration (2175).

CP Oat Avenanthramides is a natural product free from genetically modified organisms. Allergen free and not tested on animals.

Storage & Handling

No special measures necessary if used correctly. Wear safety glasses, use safety goggles where a mist may be generated. Store at room temperature only. Any unused portion should be kept sealed in the original container to avoid any contamination. Mix well before use.

Shelf Life

Our product shelf life is approximately 2 years from the date of manufacture, stored in the original unopened containers.

Formulation Suggestion

Natural Cereal and Honey Scalp Soothing and Anti-Hair Loss Treatment

This milky lotion is designed to be applied all over the scalp area with a fine applicator nozzle. The product should then be massaged into the scalp and preferably left in over night before shampooing out. It can be used during the day to control men's hair, where it will add shine and some light styling properties.

CP Oat Avenanthramides provides the skin soothing properties, making the product particularly good for dry, itchy or inflamed scalps. It should also help to reduce redness, where for instance the scalp has been exposed to excessive sunlight. It could, thus, be useful for soothing sunburnt male bald patches!

Natural hair growth, moisturising and elasticity promoting active ingredients make this formulation particularly multifunctional.

	Common / Trade Name	INCI Name	% w/w
A	Symbiomuls GC	Glyceryl Stearate Citrate; Cetearyl Alcohol; Glyceryl Caprylate	4.00
	Jojoba Oil, Colourless	Simmondsia Chinensis (Jojoba) Seed Oil	3.00
	Myritol 318	Caprylic/Capric Triglyceride	7.00
	Cetiol OE	Dicaprylyl Ether	3.00
B	Purified Water	Aqua / Water	To 100
	Amisoft HS 11P(F)	Sodium Stearoyl Glutamate	0.30
C	Bioextender SPE	Hydrolyzed Rhodophyceae Extract	5.00
	Oat Avenanthramides	Glycerin, Aqua/Water, Oat (Avena sativa) Extract	2.00
	Melhydran LS 4420	Mel / Honey Extract	3.00
	Capauxein	Water (and) Glycerine (and) Hydrolysed Corn Protein	0.75
	Preservative		qs
	Essential Oil Blend		qs

Method of Manufacture

Heat phases A and B separately to 75 to 80°C. Add phase B to A and homogenise with a high shear mixer for 1 to 2 minutes. Transfer the lotion to a paddle stirrer and continue mixing until the temperature falls below 35°C when phase C should be added. Mix well and fill into suitable containers.