



OAT OIL

Nourish. Smooth. Protect. Naturally.

Avena sativa (Oat) Kernel Oil · Product #906-3003 · ECOCERT Natural Registration

About Ceapro

Established in 1994, Ceapro Inc. is a Canadian biotech company recognized for its premium, science-backed natural oat-derived ingredients. With an unwavering commitment to quality and sustainability, Ceapro's bioactive ingredients are engineered to enhance formulations — empowering brands to deliver effective, clean, and luxurious products.

State-of-the-Art GMP Manufacturing Facility

- 30,000 sq. ft. GMP bio-processing facility
- Located in Edmonton, Alberta, Canada
- Integrated R&D, pilot scale, and significant commercial production



Proprietary Extraction & Processing Technologies

Ethanol Fractionation

Extraction, purification, concentration

Chromatography

Innovative, scalable chromatography

Pressurized Gas Expanded (PGX)

Purification, concentration, high-speed drying — generates high surface area biopolymer systems

Why Partner with Ceapro?



Credibility, Trust & Reliability

Oat experts trusted by numerous global megabrands for 30+ years, with proven efficacy backed by clinical data



Natural, Clean & Safe

Highest-quality oat varieties, processed with proprietary technology to maintain the purest, highest-quality ingredients



Stable, Consistent Raw Materials

Sourced from one of the most stable agriculture-producing regions in the world — consistent supply, year after year



Accessibility & Convenience

A one-stop shop: full portfolio of oat-based actives, expert R&D + QA support, and fully customized formula solutions

Certifications: Ecocert Natural & Organic Cosmetic (COSMOS), Non-GMO, Hypo-allergenic, Gluten Free, Fragrance Free, Not Tested on Animals, Kosher, Halal, China Compliant

Meet Ceapro's Oat Oil

Derived from the oat kernel (*Avena sativa*), Ceapro's Oat Oil is a premium, naturally lipid-rich ingredient that replenishes, conditions, and supports overall skin and hair comfort. Its balanced profile of essential fatty acids, skin-compatible polar lipids, phytoceramides, and natural vitamin E delivers soft, cushioning emollience while helping maintain moisture across a wide range of applications.

 **High linoleic acid**

 **Rich in ceramides**

 **Non-comedogenic**

Clear, lightly coloured & fast-absorbing · Pleasant mild natural odour · Non-comedogenic



Oat Oil — Properties

- ✓ A clear, lightly coloured & fast-absorbing oil
- ✓ Pleasant mild natural odour
- ✓ High linoleic acid
- ✓ Rich in ceramides
- ✓ Non-comedogenic (does not clog pores)

Natural and Organic Cosmetic Ecocert, COSMOS Organic and Natural Standard, Non-GMO, Gluten-free, Allergen-free, Fragrance-free, not tested on animals, and China compliant.



INCI: Avena sativa (Oat) Kernel Oil

CAS 84012-26-0 · EINECS 281-672-4

Product # 906-3003

Oat Oil — Benefits



Deep nourishment & lipid replenishment

Provides intense nourishment with essential fatty acids — including linoleic and oleic acids



Strengthens the skin's natural barrier

Helps support healthy barrier function by encouraging the skin's natural lipid and ceramide production



Calms and comforts irritated skin

Naturally rich in soothing compounds that help reduce visible signs of irritation



Defends against environmental stressors

Helps protect skin from aggressors such as pollution, UV exposure, and extreme temperatures



Gentle for sensitive & compromised skin

A soothing, barrier-supportive profile makes it an excellent choice for sensitive, reactive, or stressed skin

Backed by Science



How Oat Oil rates across key performance categories (Ceapro Oat Actives comparative data):

Benefit / Support	Oat Oil Rating
Barrier booster (repair / protection)	★★★
↑ Skin ceramides (quantified)	★★★
Antioxidant support (lipid peroxidation)	★★
Redness reduction (not PIH)	★★
UV / environmental stress support	★★
Reduce inflammation, swelling & itching	★★
Non-comedogenic wear	★
Adjunct for retinols / acids / laser	★

★★★ Strong clinical / OTC support ★★ Supportive / adjunct ★ Limited / early data

Selected literature

- Boosts ceramide production — Journal of Investigative Dermatology, 2022
- Moisturization — clinical regression study, Ceapro/oat-derived ingredient literature
- Dry-skin barrier improvement — Journal of the American Academy of Dermatology, 2024
- Safety & tolerability — "Safety Assessment of Avena sativa (Oat)-Derived Ingredients As Used in Cosmetics"

How Oat Oil Compares

vs. argan oil, a leading benchmark oil in premium cosmetic formulations

+40%

Sterols

+35%

Cholesterol

+24%

Linoleic Acid

+100%

Ceramides

Benefits for Hair — Backed by Data

60%

Higher ceramide protective efficacy

vs. untreated hair, against UV-induced ceramide degradation

52%

Of participants saw increased shine

compared to a silicone-based shampoo

+11%

Increase in glossiness

after a single application at 0.5% usage

Additional study conclusions: replenishes ceramide levels to protect hair from environmental damage · flattens the hair cuticle to enhance shine and smoothness · reduces tangling and improves manageability.

Where Oat Oil Performs

Application	Evidence Level
Sensitive skin	✓ Supported
Hydration / moisturization	✓ Supported
Shampoo / conditioner	✓ Supported
Anti-ageing (texture / TEWL)	🔵 Supportive / adjunct
Psoriasis & eczema	🔵 Supportive / adjunct
Sun care (after-sun / soothing)	🔵 Supportive / adjunct
Decorative cosmetics / foundation	🔵 Supportive / adjunct
Lip care	🔹 Cosmetic use only

Legend: ✓ Supported by clinical data / OTC monograph 🔵 Supportive or adjunct evidence 🔹 Cosmetic use only

Formulation Guidelines

pH range	4 to 8
Temperature range	25°C to 75°C
Recommended usage	As required
Solubility	Suitable for all oil-based product forms
Shelf life	Two years, unopened
Pack size	20 kg pails

Technical Profile

Physical / Chemical Property	Specification
Colour	Clear golden liquid
Odour	Natural oat
Peroxide value	≤ 15 mEq/kg fat
Iodine value	86 – 123 g/100 g
Acid value	≤ 10 mg KOH/g
Saponification value	$\leq 185 - 195$ mg KOH/g
Brookfield viscosity (25°C)	≤ 100 cP
Density	0.85 – 0.95 g/cm ³
Refractive index (20°C)	1.3 – 1.6
Total tocopherols	≥ 100 mg/kg
Moisture (Karl Fischer)	$\leq 0.3\%$ (w/w)

Fatty Acid Profile	% Range
14:0 Myristic	0.1 – 0.5%
16:0 Palmitic	14 – 16%
18:0 Stearic	1 – 2%
18:1 (n-7) cis-Vaccenic	0.2 – 0.6%
18:2 Linoleic	35 – 43%
18:3 α -Linolenic	1 – 1.5%
20:0 Eicosanoic	0.05 – 0.15%
20:1 Eicosenoic	0.5 – 1%

Microbial: <100 cfu/ml (aerobic count and yeast/mould) · designated non-hazardous material

Clean Beauty, Verified



GMO Free



Allergen Free



Fragrance Free



Not Tested on Animals



Gluten Free



Natural



China Compliant



ECOCERT COSMOS Approved

These certifications apply to the Oat Oil product itself. Ceapro's broader portfolio also carries Hypo-allergenic, Kosher, and Halal statements at the company level

Regulatory & Claims Notice

This presentation is intended for business-to-business audiences. It provides general information about oat-derived ingredients supplied by Ceapro and is not medical advice. Any benefits, claims, or impressions described herein are for concept illustration only. The finished-product marketer is responsible for determining appropriate claims, substantiating them with adequate evidence, and ensuring all packaging, advertising, and communications comply with applicable laws and guidance in the country of sale.

Nothing in this presentation is intended to diagnose, treat, cure, or prevent any disease. Ceapro supplies ingredients, not finished consumer products; final labeling, claims, and regulatory clearances remain the responsibility of the brand owner. Where claims are permitted only under specific conditions (e.g., qualifying dose, format, or wording), those conditions must be met in the finished product. Ceapro recommends regulatory and legal review prior to use of any claim language in market.

Ready to Formulate with Oat Oil?

Why Ceapro

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- Oat experts trusted by global megabrands for 30+ years
- Responsive technical support and reliable global supply

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