OAT LIPID PLATFORM™

Premium Organic Oat Ingredients Produced by Supercritical CO_2 Fractionation

Our supercritical CO_2 fractionation technology transforms organic oats into a portfolio of specialized lipid ingredients designed for modern skincare, personal care, and cosmetic formulations — delivering targeted functionality with the natural integrity of oat-derived lipids intact.

100% ORGANIC OATS | SOLVENT-FREE CO_2 EXTRACTION | SUSTAINABLE PROCESSING

ENDOCA

Farm to Ingredient.

Unlike conventional suppliers, Endoca Biotech controls the entire value chain — from organic oat cultivation to finished cosmetic ingredient.

Organic Oat Cultivation

Certified organic oats grown in Denmark

Proprietary Oat Development

Dedicated oat varieties developed for lipid yield

Extraction in Denmark

In-house supercritical CO_2 extraction facility

Lipid Fractionation Technology

Precision separation into three functional fractions

Premium Cosmetic Ingredients

Oat Gold™, Oat Velvet™, and Oat Balm™

Complete traceability from seed to finished ingredient.

FULLY DANISH VALUE CHAIN

Nature Refined by Science

Why Organic Oat Lipids?

Organic oats are among the most lipid-diverse botanical sources available to cosmetic formulators. Their unique composition spans the full spectrum of functional lipid classes — each contributing distinct benefits to the skin and formulation system.

Neutral Lipids

Triglycerides and essential fatty acids that deliver emolliency, spreadability, and deep skin conditioning.

Polar Lipids

Glycolipids, phospholipids, and naturally occurring polar oat lipids that support the skin's natural barrier function.

Natural Waxes

Heavier oat-derived lipids that provide structure, body, and protective sensory properties to semi-solid systems.

Bioactive Components

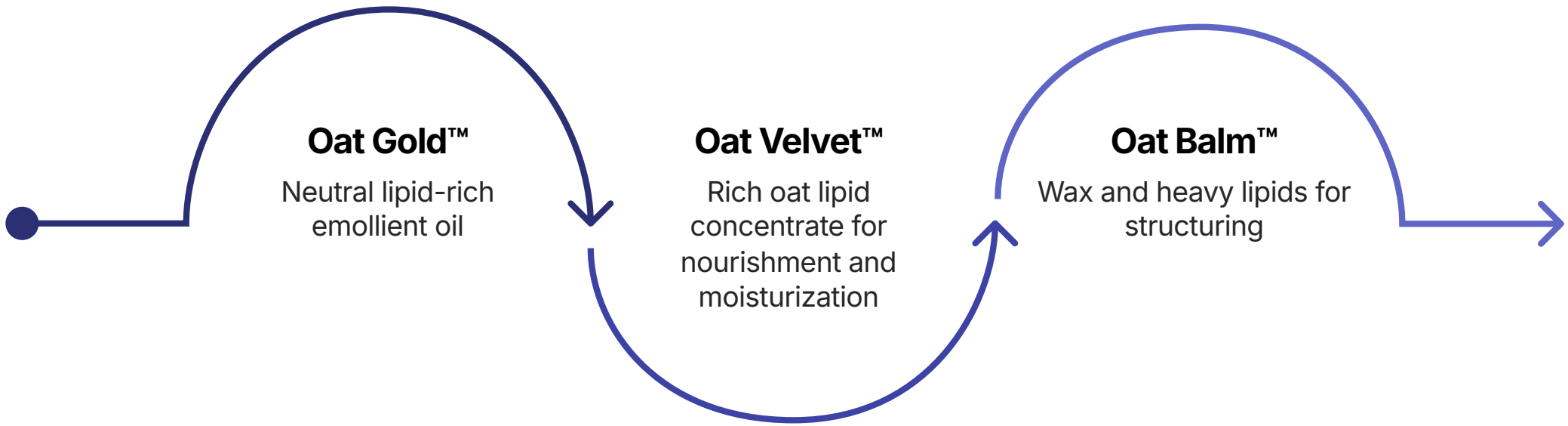
Naturally occurring oat bioactives that complement formulation positioning in premium skincare concepts.

By separating these fractions individually through precision fractionation, formulators gain access to targeted functionality from a single, sustainable botanical source.

Supercritical CO_2 Technology

The Extraction Process

Through precision supercritical CO_2 fractionation, organic oat lipids are separated into three distinct functional fractions — each harvested at a specific stage of the extraction sequence. This solvent-free process preserves the natural integrity of each lipid class while delivering clean-label, cosmetic-grade ingredients.



Each stage is carefully controlled to maximize fractionation precision, ensuring consistent composition and performance batch to batch.

THE ENDOCA BIOTECH DIFFERENCE

Why Fractionation Matters

Most oat ingredient suppliers offer a single oat oil. Endoca Biotech's supercritical CO_2 fractionation technology separates organic oats into three distinct, specialized lipid ingredients — each engineered for a specific formulation need.

Most Suppliers	Endoca Biotech
One undifferentiated oat oil	Three specialized lipid fractions
Solvent-based extraction	Solvent-free supercritical CO_2
Generic botanical claim	Targeted functional positioning
Single application	Oils, serums, creams, balms

Need: Elegant emolliency

Ingredient: Oat Gold™

Need: Rich nourishment

Ingredient: Oat Velvet™

Need: Texture & structure

Ingredient: Oat Balm™

One botanical source. Three precision ingredients. Infinite formulation possibilities.

Product One

Oat Gold™

Organic Neutral Oat Oil — First-Stage CO_2 Fraction

Oat Gold™ is a premium neutral lipid-rich oat oil obtained during the first stage of supercritical CO_2 extraction. Naturally rich in triglycerides, oleic acid, and linoleic acid, it delivers an elegant, lightweight sensory profile with fast absorption and a non-greasy finish — ideal for sophisticated leave-on formulations.

Oat Gold™ — Formulation Features

Key Features

- **Lightweight sensory profile** — elegant on-skin feel with no residue
- **Fast absorption** — penetrates quickly for immediate conditioning
- **Non-greasy finish** — compatible with premium facial and body positioning
- **Naturally rich in oleic & linoleic fatty acids** — supports skin lipid affinity
- **Excellent skin conditioning** — smoothing and softening at low use levels
- **Solvent-free extraction** — clean-label and natural-beauty compatible

Typical Applications

- Facial Oils
- Body Oils
- Hair Serums
- Moisturizers
- Creams & Lotions
- Scalp Treatments

A premium oat-derived emollient oil delivering elegant sensory performance and natural conditioning benefits across leave-on and rinse-off systems.

Product Two

Oat Velvet™

Organic Oat Lipid Concentrate — Advanced CO_2 Fraction

Oat Velvet™ is a rich, naturally emulsifying oat lipid concentrate produced through advanced supercritical CO_2 fractionation. Its luxurious texture and deep nourishing properties make it an exceptional ingredient for premium skincare — delivering a velvety skin feel, enhanced moisturization, and a naturally rich sensory experience that sets formulations apart.

Oat Velvet™ — Formulation Features

Key Features

- **Rich oat lipid concentrate** — a naturally complex fraction with a distinct, richer composition than conventional oat oil
- **Luxurious sensory profile** — delivers a velvety, nourishing skin feel with excellent spreadability
- **Naturally emulsifying characteristics** — compatible with W/O and O/W systems
- **Deep nourishment performance** — ideal for rich creams, facial oils, and premium treatment products
- **Enhanced moisturization performance** — supports transepidermal water loss reduction
- **Premium ingredient positioning** — supports luxury and clean beauty brand storytelling

Typical Applications

- Rich Moisturizers
- Sensitive Skin Products
- Premium Serums
- Anti-Aging Formulations
- Dermatological Skincare
- Cosmetic Actives

A rich, naturally emulsifying oat lipid concentrate — designed for formulators who want a premium sensory ingredient with a compelling natural origin story.

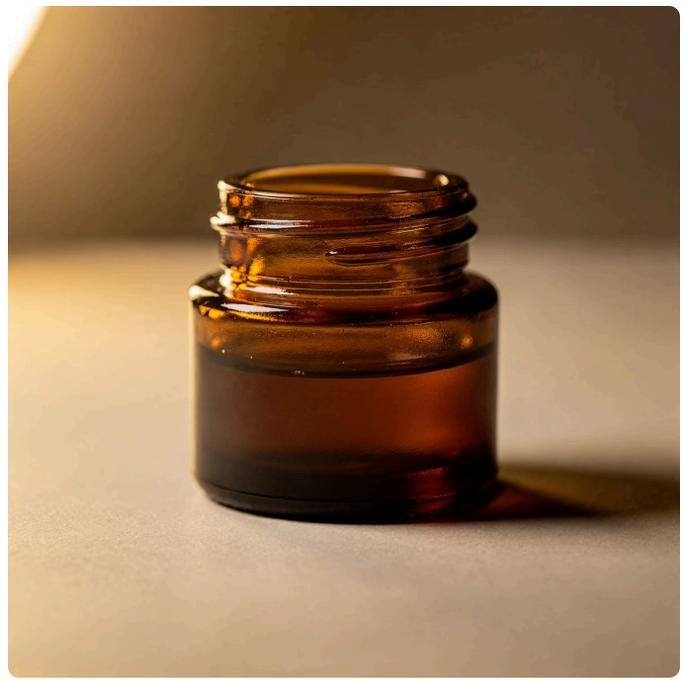
THE OAT LIPID PLATFORM™

Three Fractions. One Source. Visibly Different.

Each fraction is produced from the same certified organic Danish oat — yet each looks, feels, and performs completely differently.

Oat Gold™

Light golden oil. Elegant, fast-absorbing. Silky dry-down with zero greasiness.



Oat Velvet™

Deeper amber concentrate. Rich, nourishing texture. Naturally emulsifying with a velvety skin feel.

Oat Balm™

Thick, structured balm fraction. Protective and conditioning. Adds body and texture to any formulation.

Same source. Three distinct ingredients. Endless formulation possibilities.

Product Three

Oat Balm™

Organic Oat Wax & Heavy Lipid Fraction — Final-Stage CO_2 Fraction

Oat Balm™ is a rich, oat-derived lipid fraction containing naturally occurring waxes and heavier oat lipids recovered during the final stage of extraction. This ingredient contributes meaningful structure, body, stability, and protective sensory properties — making it an effective and sustainable plant-derived wax alternative in anhydrous and semi-solid systems.

Oat Balm™ — Formulation Features

Key Features

- **Natural structuring properties** — contributes firmness and body to solid and semi-solid systems
- **Rich, protective skin feel** — occlusive sensory character ideal for balms and lip care
- **Improves formulation stability** — supports consistent texture and melt point control
- **Plant-derived wax alternative** — suitable replacement for synthetic or animal-derived waxes
- **Supports balm and butter systems** — versatile across anhydrous and low-water formats
- **Solvent-free extraction** — clean-label compliant and naturally positioned

Typical Applications

- Balms & Salves
- Lip Care
- Body Butters
- Ointments
- Solid Cosmetics
- Natural Skincare

A naturally derived oat lipid concentrate providing structure, richness, and protection — a clean, plant-based alternative to conventional waxes.

The Complete System

The Oat Lipid Platform™ at a Glance

Together, Oat Gold™, Oat Velvet™, and Oat Balm™ provide formulators with a complete, oat-derived ingredient toolkit. Each fraction addresses a distinct formulation need — emolliency, rich nourishment, and texture/structure — enabling greater flexibility across product categories while maintaining a unified, natural origin story.

Product	Primary Function	Key Lipid Class	Typical Use
Oat Gold™	Emolliency & conditioning	Neutral lipids / triglycerides	Oils, lotions, serums
Oat Velvet™	Rich nourishment & moisturization	Naturally occurring oat lipids	Premium skincare actives
Oat Balm™	Structure & texture	Waxes / heavy lipids	Balms, butters, sticks

All three fractions are produced from a single organic oat source using solvent-free supercritical CO_2 extraction — enabling cohesive multi-ingredient storytelling across your product range.

Our Commitment

Sustainability & Clean Sourcing

The Oat Lipid Platform™ is built on a foundation of responsible sourcing and low-impact processing — meeting the demands of modern clean beauty formulation without compromise.

Organic Oat Sourced

All raw material is sourced from certified organic oats, free from synthetic pesticides and agrochemicals.

Solvent-Free CO_2 Extraction

Supercritical CO_2 leaves no solvent residues, producing exceptionally clean ingredients with no chemical contamination risk.

Low Environmental Impact

CO_2 used in extraction is recycled within the closed-loop system, minimizing greenhouse gas emissions and waste.

Clean Beauty Compatible

Plant-derived, naturally processed, and aligned with clean, green, and natural beauty positioning standards.

ENDOCA BIOTECH

The Future of Oat Lipids

From one organic Danish oat source, we create three specialized cosmetic ingredients.

Oat Gold™

Elegant Emolliency

Lightweight oil for silky, fast-absorbing formulations

Oat Velvet™

Rich Nourishment

Luxurious concentrate for premium skin feel

Oat Balm™

Structure & Protection

Natural wax fraction for body and texture

🌱 ORGANIC DANISH OATS

🏭 CO_2 EXTRACTION

🇩🇰 GROWN, EXTRACTED & DEVELOPED IN DENMARK

✨ SAMPLES AVAILABLE

Contact us to request samples or technical documentation.