



ALTER- POWDERS



PLANT ALTERNATIVES

TO UNDESIRABLE INGREDIENTS

ALTER POW DERS

With this range, found plant alternative ingredients to replace unwanted INCI in your product formulation.

We developed functional ingredients in powder from natural and plant-based origin to offer new opportunities to formulate technical galenics such as : gels, emulsions, lotions...

PLANT ALTERNATIVES TO UNDESIRABLE INGREDIENTS

DISCOVER OUR **FUNCTIONAL INGREDIENTS**
THROUGH OUR **PLANT ALTERNATIVE RANGE**



ALTER-EMULFABA
EMULSIFIER WITHOUT SURFACTANT
J100



ALTER-THICKBARLEY
THICKENING AGENT
J101



ALTER-GELIJAC
HIGH VISCOSITIES GELLING AGENT
J104



ALTER-GELITIUM
TRANSPARENT GELLING AGENT
J105



ALTER-SUSPENSILIA
SUSPENSIVE AGENT
J102



ALTER-TALCANIOC
HYDROPHOBIC POWDER
J103

**ALTER
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DERS**

LESSONIA
cosmetics + ingredients

ALTER- EMULFABA

REF : J100

EMULSIFIER WITHOUT SURFACTANT

**IDEAL TO FORMULATE EMULSIONS
WITH A TYPICAL VELVETY FEELING.**

**A PLANT ALTERNATIVE TO SURFACTANT
USED AS AN EMULSIFIER.**

Powdered emulsifier made from plant extracts and gums without chemical modifications. It is an alternative to the surfactants usually used for emulsifying. Allows to formulate white emulsions without perfume impact despite the use of plant extracts.

**100% NATURAL
ACCORDING TO
ISO 16128
COSMOS COMPLIANT**



INCI :
Acacia senegal gum &
Sclerotium gum & Hydrolyzed
cicer seed extract.



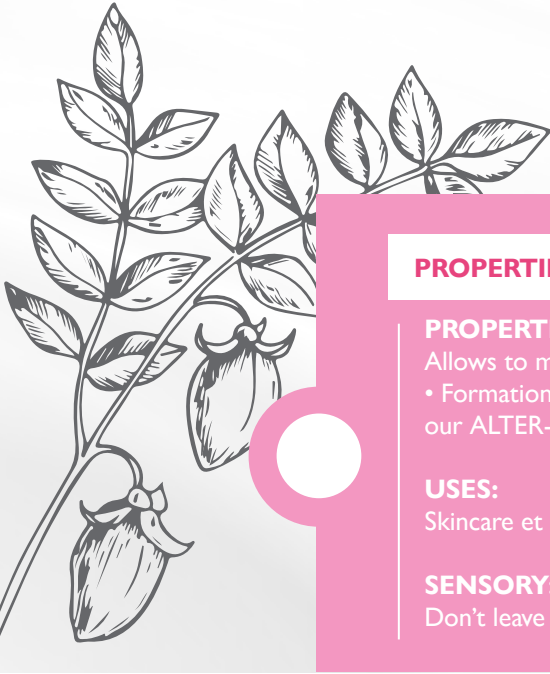
OK CHINA

MANUFACTURING PROCESS : Association of aquafaba powder (chickpeas' cooking juice) with acacia gum (Acacia senegal tree's resin), sclerotium gum (from the sclerotium rolfssii mushroom).

FUNCTION : Emulsifier

INCI : Acacia senegal gum & Sclerotium gum & Hydrolyzed cicer seed extract.

APPARENCE : Off-white powder



PROPERTIES & USES

PROPERTIES:

Allows to make stable emulsions .

- Formation of a nice fluid emulsion. To obtain a thickener emulsion, it can be combined with our ALTER-THICKBARLEY, ALTER-GELIJAC or ALTER-GELITIUM.

USES:

Skincare et bodycare suchs as moisturizing milks, cleansing milks, anti-aging creams ...

SENSORY: A typical touch characterized by a cool, soft and silky skin feel.

Don't leave a tacky after-feel and gives to the skin a velvety feeling whithout soapy effect.

FORMULATION

Recommanded 2.0% ; for a thickener emulsion it can be used with thickbarley.

Hot emulsification (75-80°C) in aqueous phase

Disperse in water first with defloculator turbine

Add Oil phase (75°C) up to 40% at 2% of ALTER-EMULFABA

Use rotor stator to mix

Adjust the pH value between 4 and 8

COMPATIBILITIES

Very good emulsion's stability in a range of pH from 4 to 8.

It emulsifies all oily phases, whatever their nature : synthetic, mineral of vegetable oils. It is also compatible with electrolytes.

TEXTURE & SYNERGY

TEXTURE



COMPOSITION

Stability tested for 1 month at 50°C

2% ALTER-EMULFABA
20% Sunflower plant oil
87.44% Demineralized water
QSP Preservatives

RESULTS

Fluid cream, soft and evanescent touch with «Silicone-like» effect. It doesn't soap and doesn't fluff up.

SENSORIAL PROFIL

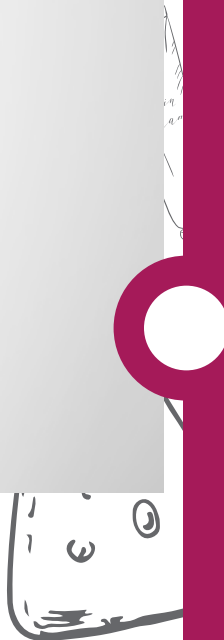




FORMULATION GUIDE

MOISTURISING COCOON CREAM

Lessonia offers you an application formula to inspire you in your project with our emulsifier **ALTER-EMULFABA**.
This formulation guide is about the cocoon moisturising cream.

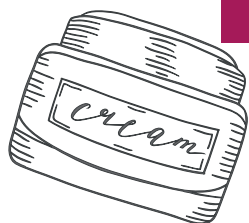


INGREDIENT NAME	INCI	W.T %
AQUALGAE SACCHARINA*	SACCHARINA LATISSIMA EXTRACT & CITRIC ACID & SODIUM BENZOATE & POTASSIUM SORBATE	QSP 100%
OIL OF ALGAE*	VITIS VINIFERA SEED OIL & LAMNARIA DIGITATA EXTRACT & TOCOPHERYL ACETATE	20%
ALTER-EMULFABA*	ACACIA SENEGAL GUM & SCLEROTIUM GUM & HYDROLYZED CICER SEED EXTRACT	2%
PERFUME	PERFUME	0.8%
TREMEL+HA*	TREMELLA FUCIFORMIS POLYSACCHARIDE	0.10%

*Ingredients from Lessonia.

PROTOCOL

- Add **ALTER-EMULFABA** to aqualgae under deflocculating agitation.
- Heat to 75°C under agitation to 2 000 rpm.
- Heat Oil of Algae to 75°C
- Pour Oil of Algae into the aqueous phase under rotor stator 3000 rpm during 10 min.
- Cool under deflocculating agitation (1 500 rpm) to 30°C.
- Add Tremel+HA.



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ALTER- THICKBARLEY

REF : J101

THICKENING AGENT

IDEAL TO OBTAIN THICKEN CREAM WITH
A RICH BUT NOT GREASY TEXTURE
AND A POWDERED FEELING

A PLANT ALTERNATIVE TO MODIFIED STARCHES

A natural high viscosity rheological agent allowing to formulate very thick textures. 100% natural, from plant origin, without chemical modification and is therefore an alternative to modified starches and synthetic polymers. It is used at room temperature to stabilize emulsions. It allows to obtain a rich but not greasy texture, a powdered feeling and to keep a perfect whiteness even when it is hot processed.

MANUFACTURING PROCESS: Native starch extracted from barley and thermally debacterialized. ALTER-THICK-BARLEY is a starch that is not chemically modified.

FUNCTION:

- **Thickener:** it allows to obtain thicken cream.
- A rich but not greasy texture
- **Emulsion stabilizer:** associated with an emulsifier, it allows to texturize and participate to the stability of the emulsion

INCI: Hordeum vulgare seed flour

APPEARANCE: White powder



**100% NATURAL
ACCORDING TO ISO 16128
COSMOS COMPLIANT**



**INCI :
Hordeum vulgare seed flour**



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PROPERTIES & USES

PROPERTIES:

Consistency agent that improves the viscosity of products without soapy effect :

- When used in aqueous phase, it allows to obtain opaque unctuous gels.
- When used in emulsions, it thickens and stabilizes them

USES:

Emulsions for face and body care.
It can be used to stabilize emulsions

SENSORY: Rich and melting texture leaving a protective film on the skin with a soft finish.
It creates a cocooning texture with a nice comfort of use



FORMULATION

GENERAL CHARACTERISTICS:

- **Recommended dosage : around 5%**

PROTOCOL:

- To be incorporated into an emulsion after the emulsion has formed to thicken and stabilize it.
- Not heat sensitive so it can be incorporated when hot.

TEXTURE & SYNERGY

TEXTURE



COMPOSITION

Stability tested for 1 month at 50°C

2% ALTER-EMULFABA
10% sunflower oil
5% ALTER-THICKBARLEY
82.44% demineralized water
QS Preservatives

RÉSULTAT

Thick cream, creamy texture, rich but not greasy, soft and penetrating touch. It doesn't soap and doesn't fluff up.

PROFIL SENSORIEL



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ALTER- GELIJAC

REF : J104

HIGH VISCOSITIES GELLING AGENT

IDEAL TO OBTAIN COLORLESS GELS
WITH HIGH VISCOSITIES, SHOWER GEL
AND SHAMPOO.

A PLANT ALTERNATIVE TO UNWANTED
GELLING AGENT : XANTHAN, CARBOMER,
SYNTHETICS POLYMERS...

A 100% natural and plant-based gelling agents which allows to obtain high viscosity and translucent gels. It is a perfect alternative to synthetic polymers. ALTER-GELIJAC is obtained by extracting polysaccharides from the konjac's root. It leaves a protective film on the skin and a freshness feeling. It can be used both hot and cold.



**100% NATURAL
ACCORDING TO ISO 16128
COSMOS COMPLIANT**



**INCI :
Glucomannan**



OK CHINA

MANUFACTURING PROCESS: ALTER-GELIJAC is a natural fiber obtained by extracting polysaccharides from a konjac plant which is traditionally harvested in China. The powder obtained is mainly composed of glucomannan, a composition of two sugars: mannose and glucose.

FUNCTION:

Gelling agent for aqueous phases allowing high viscosities.

TYPE: Gelify aqueous phases.

INCI: Glucomannan

APPEARENCE: White powder

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PROPERTIES & USES

PROPERTIES:

- Gelling of aqueous phases
- Thickener for emulsions
- Emulsion stabilizer

USES:

- Ideal to formulate shower gels, shampoos, slimming gels, gel scrub, freshness gel masks.

SENSORY:

- Soft touch
- Leaves a protective film on the skin and a feeling of freshness.
- Can be used in synergy with other texturizing agents to vary textures and film-forming effects.

FORMULATION

GENERAL CHARACTERISTICS:

- **Dosage** : from 0,1 to 2 %




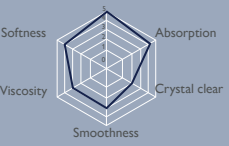
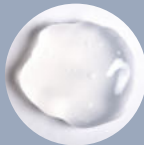

PROTOCOL:

- ALTER-GELIJAC is a nonionic gelling agent. It can be used cold or hot process, but texture is improved when it's heated.
- Easy dispersion without agglomeration in aqueous bases.
- Incorporate the powder into the aqueous phase under agitation, and mix for 30 minutes at 45°C. The gel is smoother when made hot.

COMPATIBILITIES :

- ALTER-GELIJAC can be formulated over a wide range of pH.
- It is also compatible with electrolytes.
- Compatible with most of surfactants, ideal with cationic surfactants.

TEXTURES

TEXTURES	COMPOSITION <small>Stability tested for 1 month at 50°C</small>	RESULTS	SENSORIAL PROFIL
	0.5% ALTER-GELIJAC 99.5% Demineralized water QS Preservatives	Very light and fluid texture with a nice glide comfort and evanescent touch. Quick absorption into the skin. Does not stick to the skin	
	1% ALTER-GELIJAC 99% Demineralized water QS Preservatives	Thicker gel with a high glide comfort. Very soft touch. Good absorption into the skin.	
	2% ALTER-GELIJAC 98% Demineralized water QS Preservatives	Very thick gel texture Pleasant application. Smooth texture but can create some pills on the skin after application.	



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ALTER- GELITIUM

REF : J105

TRANSPARENT GELLING AGENT

IDEAL TO BRING FILMOGENIC SENSORIALITY
AND FORMULATE EXTREMELY
TRANSPARENT GELS.

ALSO CAN BE USED AS A CO-EMULSIFIER
OR A SUSPENSIVE AGENT.

A PLANT ALTERNATIVE TO UNWANTED
GELLING AGENT : CARBOMER, SYNTHETICS
POLYMERS...

100% natural, ALTER-GELITIUM is a gelling and stabilizing agent for emulsions. It is a perfect alternative to synthetic polymers. It is a non-ionic agent and therefore can not interact with other ingredients in the formulas. Used as a co-emulsifier, it allows to form a network around the oily particles to avoid phase shift.



**100% NATURAL ORIGIN
ACCORDING TO ISO 16128
COSMOS COMPLIANT**



INCI :
Sclerotium gum



OK CHINA

MANUFACTURING PROCESS: Resulting from the fermentation of the Sclerotium mushroom (Non GMO).

FUNCTION:

- **Gelling agent:** texturizing to form very clear, transparent aqueous gels.
- **Co-emulsifier:** to stabilize emulsions thanks to the network formed between the oil droplets.

INCI: Sclerotium gum

APPEARENCE: White powder

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PROPERTIES & USES

PROPERTIES:

- Brings filmogenic sensoriality
- Viscosity agent that brings great transparency to gels.
- Non-ionic gelling agent
- Stabilizes emulsions

USES:

- Ideal to formulate skincare product suchs as face serum, lotion, cleansers, creams

SENSORY:

- Soft and smooth texture
- Filmogenic action on the skin



FORMULATION

GENERAL CHARACTERISTICS:

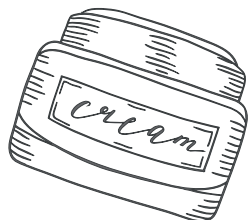
- **Dosage** : From 0.1% to 2%

PROTOCOL:


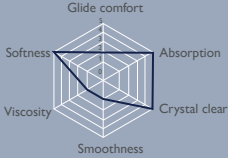



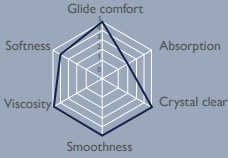
- Incorporate the powder into the aqueous phase under agitation, and mix for 30 minutes at 45°C.

COMPATIBILITIES:

- Can be used with most of surfactants
- Tolerant to electrolytes
- For use in a pH range of 3 to 11



TEXTURES

TEXTURES	COMPOSITION Stability tested for 1 month at 50°C	RESULTS	SENSORIAL PROFIL
	0.5% ALTER-GELITIUM 99.5% Demineralized water QS Preservatives	Very fluid aqueous gel such as a light veil. High softness during application. A very good absorption into the skin. Crystal clear texture.	
	1% ALTER-GELITIUM 99% Demineralized water QS Preservatives	Aqueous gel with a higher viscosity. High glide comfort, freshness and softness during application. Very good absorption into the skin. Crystal clear texture	
	2% ALTER-GELITIUM 98% Demineralized water QS Preservatives	Aqueous gel with a high viscosity. Very high glide comfort with a smooth texture. Soft during application. Crystal clear texture.	

TRANSPARENCY

ALTER-GELITIUM VS. CARBOPOL

- ALTER-GELITIUM offers the same transparency effect that the Carbopol but with biggest benefits thanks to its plant and natural properties for your formulations.



ALTER-GELITIUM (1%)



CARBOPOL (1%)

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ALTER- SUSPENSILIA

REF : J102

SUSPENSIVE AGENT

**IDEAL FOR KEEPING EXFOLIANTS,
DECORATIVE PARTICLES, PIGMENTS
OR ANY OTHER PHYSICAL PARTICLES
IN SUSPENSION.**

**A PLANT ALTERNATIVE TO UNWANTED GEL-
LING AGENT : CARBOMER, SYNTHETICS
POLYMERS...**

Suspended agent made from sterculia tree's gum. It is an excellent alternative to synthetic polymers. It allows a strong suspensive power while having a low viscosity.



**100% NATURAL
ACCORDING TO ISO 16128
COSMOS COMPLIANT**



INCI :
Sterculia urens gum & Sclero-
tium gum



OK CHINA

MANUFACTURING PROCESS:

Synergistic association between a sterculia gum and a sclerotium gum.

FUNCTION:

- Suspensive agent ideal to make scrubs or to maintain pigments in tinted milks.
- To keep mineral exfoliants and dense particles in suspension
- Its suspensive asset also allows to stabilize emulsions.

TYPE: Suspensive agent

INCI: Sterculia urens gum & Sclerotium gum

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PROPERTIES & USES

PROPERTIES:

Suspensive agent ideal to maintain in suspension physical particles (pigments, exfoliants, decorative particles...) in a solution while limiting the viscosity.

USES:

- Ideal to formulate skincare product such as exfoliating gels, lotions with decorative particles, tinted emulsions

SENSORY:

- Filmogenic feeling on the skin

FORMULATION

GENERAL CHARACTERISTICS:

- **Dosage** : from 0.5% to 2%


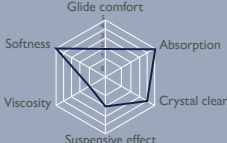
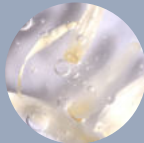
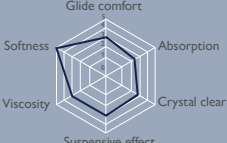
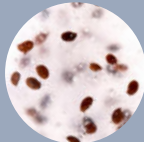
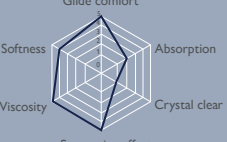
PROTOCOL:

- Incorporate the powder into the aqueous phase under agitation, and mix for 30 minutes at 45°C

COMPATIBILITIES:

- To be used in a pH range from 6 to 8
- Electrolytes may cause a decrease in viscosity
- Possible incompatibilities in presence of surfactants

TEXTURES

TEXTURES	COMPOSITION <small>Stability tested for 1 month at 50°C</small>	RESULTS	SENSORIAL PROFIL
	0.5% ALTER-SUPENSILIA 99.5% Demineralized water White helichrysum petals QS Preservatives	Very fluid aqueous gel with a short-lived suspensive effect. Ideal to maintain flowers petals in suspension. Translucent texture.	
	1.5% ALTER-SUPENSILIA 98.5% Demineralized water White helichrysum petals QS Preservatives	Aqueous gel with a higher viscosity. Good suspensive effect to maintain decorative particles in suspension (flowers petals, shells, seeds, kernels...) Translucent texture.	
	2% ALTER-SUPENSILIA 98% Demineralized water Kiwi seeds exfoliant QS Preservatives	Aqueous gel with a very high viscosity. Powerful suspensive effect to maintain heavy decorative particles in suspension (minerals, seeds...).	



FORMULATION GUIDE

VOLCANIC EXFOLIANT GEL

Lessonia offers you an application formula to inspire you in your project with our gelling agent **ALTER-SUSPENSILIA**.

This formulation guide is about the volcanic exfoliant gel.



INGREDIENT NAME	INCI	W.T %
AQUALGAE ASCOPHYLLUM*	ASCOPHYLLUM NODOSUM EXTRACT & SODIUM BENZOATE & POTASSIUM SORBATE & CITRIC ACID	QSP 100%
PENTYLENE GLYCOL	PENTYLENE GLYCOL	5%
ALTER-SUSPENSILIA*	STERCULIA URENS GUM & SCLEROTIUM GUM	2%
VOLCANIC SAND EXFOLIATOR 500*	VOLCANIC SAND	1.38%
VOLCANIC SAND EXFOLIATOR 300*	VOLCANIC SAND	0.82%
ORAMIX CG110	CAPRYLYL/CAPRYL GLUCOSIDE AQUA	0.60%

*Ingredients from Lessonia.

PROTOCOL

- Add **ALTER-SUSPENSILIA** and pentylene glycol to aqualgae.
- Heat and mix at 1 500 rpm until to reached 45°C and keep heating for 20 min.
- Make a premix with the perfume and the oramix, and mix until a transparent mixture is obtained (possibility to heat to 40°C).
- Add this premix to the aqualgae and mix at 1 500 rpm.
- Add exfoliants.

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ALTER- TALCANIOC

REF : J103

HYDROPHOBIC POWDER

IDEAL TO FORMULATE BABY POWDER,
TOUCHING AGENT AND MAKEUP

A PLANT ALTERNATIVE TO TALC WITH HYDROPHOBIC ASSETS

ALTER-TALCANIOC is a plant alternative to talc with the same hydrophobicity properties. It is ideal to protect skin against moisture and will be a perfect natural and plant ingredient to formulate baby powder. Thanks to its absorbant assets and its extrem softness, ALTER-TALCANIOC will be ideal to give a soft touch to formulations.



71% NATURAL ORIGIN
ACCORDING TO ISO 16 128



INCI:
Cellulose acetate &
tapioca starch



OK CHINA

MANUFACTURING PROCESS: Association of a manioc extract powder with cellulose acetate powder which allows to bring the protective properties thanks to the hydrophobicity of the material.

FUNCTION:

- Baby powder
- Touching agent powder
- Makeup
- Mattifying

INCI: Cellulose acetate & tapioca starch

APPEARENCE: White powder

PROPERTIES & USES

PROPERTIES:

Can absorb more than 2 times of its weight in sebum.

USES:

- Ideal for baby powders
- Make-up
- Touching agent

FORMULATION

GENERAL CHARACTERISTIC:

- Dosage : Up to 100%

PROTOCOL:

- Cold process
- Use pure or mixed with other powders

HYDROPHOBIC



Water drop on
ALTER-TALCANIOC
powder

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