

OCEANTHIX™LV
(INCI: Algin), is a
**sustainably-sourced,
low-viscosity anionic
biopolymer extracted
from ocean overgrowth***
using a patented,
green chemistry-based
biorefining process

**algae species:
Sargassum Natans/Fluitans*

This multi-functional texturizing agent & rheology modifier plays an important role in developing 100% bio-based & biodegradable alternatives to synthetic thickening agents, which could be reclassified as microplastics.

OCEANTHIX™LV's viscosity enhancing & texturizing properties work synergistically with other biopolymers to create unique performance & sensorial effects that cannot be achieved with 1 single biopolymer on its own.

While Alginate is not traditionally used on its own to stabilize emulsions, when used in combination with other biopolymers like Xanthan Gum, we can obtain stable emulsions with improved sensorial properties.

Origin by Ocean has collaborated with Evident Ingredients range of Aquatex Xanthan Gums as they have shown remarkable ease of use and synergistic effects with OCEANTHIX™LV. For emulsions and skincare in general, we suggest using OCEANTHIX™LV with Evicare® aquatex 14.

ADVANTAGES OF OCEANTHIX™LV IN EMULSIONS:

IMPROVED SENSORIALITY:

In an internal blind test,

more than 78%

**of participants preferred
an emulsion formulated
with OCEANTHIX™LV &
Xanthan Gum**

over Xanthan Gum only

INCREASED VISCOSITY:

0.3% OCEANTHIX™LV + 0.5% Evicare® aquatex 14 **provided equal or higher viscosity** than 0.8% Xanthan Gum on its own.

CHOICE OF EMULSIFIER:

Alginate, a polysaccharide extracted from brown algae, occurs naturally as insoluble alginic acid. For practical applications, it is typically extracted into its water soluble form, sodium alginate, which inherently contains sodium as well as other electrolytes.

When using OCEANTHIX™LV in an emulsion, it is therefore important to choose a robust emulsifier that is electrolyte tolerant.

OCEANTHIX™LV is a low-viscosity sheer thinning biopolymer, making it an ideal component of an emulsion stabilizing system. During homogenization, the emulsion will maintain good flow, and at rest, regain its viscosity.

Current list of tested emulsifiers that are stable after 12 weeks accelerated stability testing with 0.3% OCEANTHIX™LV + 0.5% Evicare® aquatex 14:

Emulium®
Dolcea

FLUIDIFEEL™
Easy

MONTANOV™
68 MB

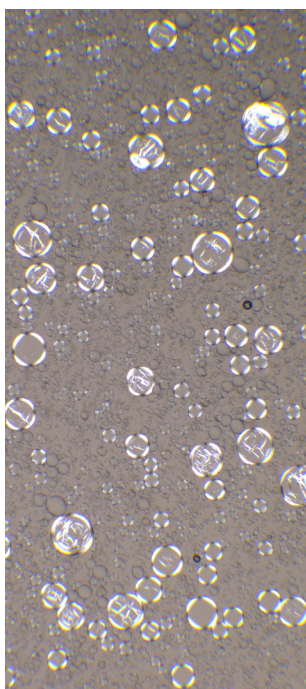
MONTANOV™
82

MONTANOV™
202

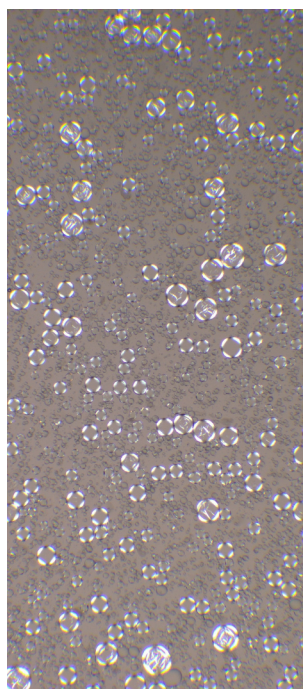
MONTANOV™
L

MONTANOV™
S

PolyAqual™
2W



EMULSION WITH
0.8% Xanthan Gum



EMULSION WITH
0.3% OCEANTHIX™ LV +
0.5% Xanthan Gum

Emulsions made with
OCEANTHIX™ + Xanthan
Gum have a smaller, more
uniform particle size
dispersion.

FRAME FORMULATION

Water QS
Glycerin 2.4%
Xanthan Gum
OCEANTHIX™ LV
Montanov™ 68 MB 4%
Caprylic/Capric Triglyceride 15%
Preservative

Have an emulsifier you'd like
to see tested
with **OCEANTHIX™ LV**?

Please let us know!

**TECHNICAL SALES & SUPPORT
OUTSIDE OF FINLAND:**

Marc Desmarais
Product Development Activist
marc.desmarais@originbyocean.com

**TEKNINEN MYYNTI JA TUKI
SUOMESSA**

Kristofer Vääntinen
Formulation Chemist Activist
kristofer.vääntinen@originbyocean.com

