





○ Recommended dose: 1-3%

○ Solubility: Water soluble



## DESCRIPTION & MECHANISM

D/scover: Alteromonas

lipotrueae

**Innovation** can emerge from the mechanism of action, the origin, or even the technology used. But what about the **discovery** of a new microorganism?

Develop: neuromuscular

communication

V/WA™ is a fully vertically integrated product, completely controlling the three key steps of the process: D/scover, Develop and Del/ver. V/WA™ is the active ingredient obtained from the fermentation of a newly identified *Alteromonas* species: *Alteromonas lipotrueae* 

**Alteromonas lipotrueae** was found in the sea living in symbiosis on the surface of the Mediterranean Sea's most stinging **jellyfish**, the **Pelagia noctiluca**. The metabolomic analysis of the ferment from this microorganism confirmed that it contains several biomimetic compounds linked to muscle contraction

V/WA<sup>™</sup> relaxes expression wrinkles acting along the three steps of neuromuscular communication: neuritogenesis & neuronal migration, synaptic vesicles recycling and muscle contraction. V/WA<sup>™</sup> smoothed wrinkles on crow's feet, the forehead and even those challenging hidden wrinkles that are revealed to the world when smiling or frowning

From the **discovery** of a new microorganism, through the **development** of a new active ingredient to the **delivery** of a novel approach for expression wrinkles

Raw material approved by ECOCERT GREENLIFE, conform to the COSMOS Standard

## DISCOVERING A. LIPOTRUEAE

TM

Del/ver: smoothes hidden expression wrinkles





### IN VITRO EFFICACY

# Neuritogenesis & neuronal migration -17% neurite outgrowth 0.05 mg/mL V/WA™ Basal (β-III tubulin in cyan) (B-III tubulin in cvan) -13% neuronal migration towards myocytes to form synaptic connections Basal Myocytes & migrated motor neurons 0.05 mg/mL V/WA™ Myocytes & migrated motor Synaptic vesicles (SVs) recycling -34% clathrin, slowing Basal down SVs recycling (clathrin in green) and so an efficient neurotransmitter release Muscle contraction -73% acetylcholine release in a collagen matrix -40.5% activated AChRs Basal

#### vs basal myocytes

www.lipotrue.com | info@lipotrue.com

## IN VIVO EFFICACY

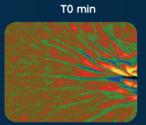
## Del/vering a smoothing effect against hidden expression wrinkles

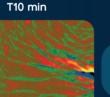
2 panels of 20 women (45-60 years old) with expression lines in crow's feet and forehead applied a cream with 3% V/WA<sup>TM</sup> or a placebo on the whole face. twice daily for 28 days



Up to 35% less wrinkle depth in crow's feet in 28 days

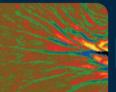
-13% wrinkle depth between wrinkles and smiling wrinkles in 10 min in crow's feet





Wrinkles -11.3% depth -18.1% volume







T0 days



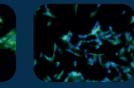
Hidden wrinkles (smiling) -23.4% depth -11.3% volume

Up to 44% less wrinkle depth in the forehead in 10 min

Up to 51% less frowning wrinkle volume in the forehead after 28 days

-34% wrinkle depth between wrinkles and frowning wrinkles in the forehead after 28 days





-48% contraction of myocytes

0.15 mg/mL V/WA™





