

NZ Green Lipped Mussel Extract

Our **whole** powdered Green Lipped Mussel Extract is encapsulated in a laboratory that is licensed by the New Zealand Ministry of Health and the New Zealand Ministry of Agriculture and Forestry. Our Green Lipped Mussel is **100% pure** and contains no additives, fillers or preservatives and have very high concentrations of **Glucosamine, Chondroitin sulphate - Mucopolysaccharides, vitamin B-complex, proteins and minerals, natural Omega 3 fatty acids.**

Uniquely grown at Mussel farms in New Zealand along the Coromandel Peninsula, in the Marlborough Sounds and in Stewart Island's Big Glory Bay this product is quality controlled and tested to Human food grade standard, and in fact is widely recognised as a very effective remedy for arthritis, gout, blood, gastric and inflammatory conditions in humans.

As the world leader, New Zealand has many major mussel farms with water quality free of contaminants. Juvenile, or spat mussels, are harvested and transported to the various farms and grown on ropes in rich pollutant free waters. It takes approximately 18 months for the growing period of the spat to produce the quality meat needed for harvesting. The mussels are then packaged at a processor and held in frozen storage. From there they are freeze-dried, milled and packaged.

Green Lipped Mussel Extract - Composition

Green Lipped Mussel Extract contains a wide variety of nutrients; the following list is to be used as a guideline for the contents of Green Lipped Mussel Extract and is not necessarily an indication of the contents of any particular brand of GLME. Our GLME is extracted by the McFarlane method, which protects the active ingredients.

The composition is as follows:

Vitamins	mg/100 g
<u>B1</u>	0-0.2
<u>B2</u>	0-0.2
<u>B3</u>	0-0.4
<u>B6</u>	0-0.2
<u>B12</u>	0-0.2
<u>C</u>	0-0.2
<u>D</u>	0-0.3
<u>E</u>	0-0.2
Macrominerals	g/100g
Natrium	5 g
Potassium	1 g
Other mins/trace elements	mg/100 g
<u>Magnesium</u>	350
<u>Calcium</u>	500
<u>Iron</u>	30
<u>Zinc</u>	5
Manganese	1
Copper	1

Other nutrients	g/100 g
Proteins	40-50
Fats	15-20
Carbohydrates	5-15
Mineral ash	20-30

The fats are mainly **omega-3 fatty acids**, EPA, DHA and ETA.

Amino acids	g/100 g
Alanine	1.7
Arginine	2.5
Aspartic acid	3.2
Phenyl alanine	1.3
Glutaminic acid	4.0
Glycine	4.0
Histidine	0.7
Isoleucine	1.4
Cysteine	0.2
Cysteic acid	2.3
Leucine	2.1
Lysine	2.7
Methionine	0.8
Proline	1.2
Serine	1.5
Threonine	1.4
Tyrosine	1.2
Valine	1.5

The amino acids in the NZ Green Lipped Mussel extract form a specific protein called pernin. It contains 497 amino acids and its molecular weight is 60 kDa (kilodalton). Pernin contains a lot of histidine (13.7%) and aspartic acid (12.3%). Pernin was found in 2001 (Scotti et al. 2001).