

# Product Specification

## Green Lipped Mussel Powder

#1100

CO<sup>2</sup> Extracted

*Perna canaliculus*

**DESCRIPTION:** New Zealand Greenshell Mussel Powder (also termed Green Lipped Mussel or EGSMP) from mussels harvested in the pristine Marlborough sound. Our EGSMP is prepared by freeze drying whole mussel meat (no shell) and then lightly defatting them which increases stability/shelf life and enables better mixing and solubility with other ingredients.

### Physical Analysis

**APPEARANCE:** Fawn/light brown to green powder  
**FLAVOR/AROMA:** Characteristic of GLMP, Mussel odor  
**TEXTURE:** Fine powder free of foreign material and matter unrelated to the natural product

Typical Analytical Composition	Test Method	Standard
Ash	AOAC 938.08	< 26.5%
Carbohydrates	Calculation	< 8%
Lipids and Fat	AOAC 922.06	< 2%
Protein	AOAC 991.20.1 - Kjeldahl Protein Factor	> 40%
Cholesterol	AOAC	<1.5 g/100g
Sodium (Na)	AOAC	<65,000 mg/kg
Potassium (K)	AOAC	<10,300 mg/kg
Magnesium (Mg)	AOAC	<6,200 mg/kg
Calcium	AOAC	<10,800 mg/kg
Energy Value	AOAC	<1255 KJ/100g
Energy kcal	AOAC	<300 Kcal/100g
Mucopolysaccharides	UV at 65nm	NLT 17%
Betaine	AOAC	<4.2%
Moisture	AOAC 926.12 OMA online	<5%
Irradiation	(PSL METHOD)	Negative

Microbiological	Test Method	Standard
<b>Total Plate Count</b>	Compendium of Methods for the Microbiological Examination of Foods - 4th Ed. 2001	<50,000 cfu/g
<b>Coliforms</b>	Compendium of Methods for the Microbiological Examination of Foods - 4th Ed. 2001	<1,000 cfu/g
<b>Enterobacteriaceae</b>	Compendium of Methods for the Microbiological Examination of Foods - 5th Ed. 2001	< 100MPN/g
<b>Yeast &amp; Mold</b>	BP2012	<100 cfu/g
<b>E. Coli</b>	USP NF	<10 cfu/g (Negative)
<b>Salmonella</b>	ISO6579:2012 (E)	Negative
<b>Staphylococcus aureus</b>	ISO6579:2012 (E)	<10 cfu/g (Negative)
<b>Mercury</b>	In-house digestion/ICP-MS (APHA 3125B)	< 0.3 mg per kg
<b>Lead</b>	In-house digestion/ICP-MS (APHA 3125B)	< 5 mg per kg
<b>Cadmium</b>	In-house digestion/ICP-MS (APHA 3125B)	< 3 mg per kg
<b>Arsenic by Gutzeit (Organic)</b>	FCCIV/KELP	< 4 ppm
<b>Arsenic by Graphite Furnace (Inorganic)</b>	Sm 3113B	< 2 mg per kg

**PACKAGING:** The powder is heat sealed into foil bags, which are contained within a cardboard box. The net weight of each unit is 20 kilograms. The powder will absorb moisture when exposed to the atmosphere. Unused bags should be resealed.

**STORAGE & SHELF LIFE:** This product has a shelf life of 3 years from the date of packing, provided that it is stored in cool dry conditions without direct sunlight.

**February 8, 2017**