



YOUR PARTNER IN THE FUTURE OF FEED

# EnterraGrubs™



EnterraGrubs are whole, dried black soldier fly larvae that are full of good nutrients.

- Repack and market as a treat for birds, chickens and other animals.
- Blend with other ingredients in your formulated pet foods and animal feeds. For extruded feed, use at up to 15% inclusion, followed by pre-grinding and extrusion.



## EnterraGrubs™ NUTRITIONAL INFORMATION

**Ingredient:** whole, dried black soldier fly larvae

**Bulk Density:** 0.35 kg/L

**Packaging:** Bulk bag with pallet

**Shelf Life:** One year from manufacture

**Country of Origin:** Canada

**Storage:** Store in a cool, dry area

Proximate	Typical
Crude Protein (%)	~34-40
Crude Fat (%)	~40
Crude Fibre (%)	~11
Ash (%)	~5
Moisture (%)	~6

Amino Acids	Typical
Aspartic Acid (%)	3.0
Threonine (%)	1.3
Serine (%)	1.4
Glutamic Acid (%)	3.9
Proline (%)	2.3
Glycine (%)	1.8

Alanine (%)	2.2
Cystine (%)	0.3
Valine (%)	2.6
Methionine (%)	0.5
Isoleucine (%)	1.6
Leucine (%)	2.5
Tyrosine (%)	2.2
Phenylalanine (%)	1.4
Histidine (%)	1.0
Lysine (%)	2.2
Arginine (%)	1.7
Tryptophan (%)	0.5

Fatty Acids	Typical
Capric Acid C10:0 (%)	0.3
Lauric Acid C12:0 (%)	15.3
Myristic Acid C14:0 (%)	2.4
Palmitic Acid C16:0 (%)	4.3
Palmitoleic Acid C16:1w7 (%)	1.7
Stearic Acid C18:0 (%)	0.5
Oleic Acid C18:1w9 (%)	4.5
Vaccenic Acid C18:1w9 (%)	0.2
Linoleic Acid C18:2w6 (%)	1.4

Eicosenic Acid C20:1w9 (%)	0.2
Linolenic Acid C18:3w3 (%)	0.5
Eicosadienoic Acid C20:2w6 (%)	0.2

Summary of Fatty Acids	Typical
Total Fat as Triglycerides (%)	38
Saturated Fatty Acids (%)	23
Monounsaturated Fatty Acids (%)	7
Polyunsaturated Fatty Acids (%)	6
Omega-3 (%)	1
Omega-6 (%)	5
Omega 3:6 Ratio	0.2

Minerals	Typical
Calcium (ppm)	~8000
Phosphorus (ppm)	~6000

Microbial Analysis	Guarantee
E. coli (MPN/g)	< 10
Salmonella (in 25 g)	Negative

NATURAL INGREDIENTS. SUSTAINABLY DEVELOPED.

[sales@enterra.com](mailto:sales@enterra.com)  
+1 604 888 4327  
[enterra.com](http://enterra.com)



YOUR PARTNER IN THE FUTURE OF FEED

# EnterraProtein™



EnterraProtein is a highly digestible protein meal made from sustainable black soldier fly larvae.

- Blend with other ingredients in your formulated pet foods and animal feeds.



## EnterraProtein™ NUTRITIONAL INFORMATION

**Ingredient:** de-fatted dried black soldier fly larvae  
**Antioxidant (optional):** Naturox® Plus Dry, 1000 ppm  
**Bulk density:** 0.65 kg/L  
**Particle size:** < 0.595 mm (30 mesh)  
**Packaging:** Bulk bag with pallet  
**Shelf Life:** One year from manufacture  
**Country of Origin:** Canada  
**Storage:** Store in a cool, dry area

Proximate	Typical
Crude Protein (%)	~53
Crude Fat (%)	~13
Crude Fiber (%)	~10
Ash (%)	~7
Moisture (%)	~4

Amino Acids	Typical
Alanine (%)	3.3
Arginine (%)	2.5
Aspartic Acid (%)	4.4
Cystine (%)	0.4
Glutamic Acid (%)	5.8
Glycine (%)	2.7
Histidine (%)	1.5
Isoleucine (%)	2.3
Leucine (%)	3.7
Lysine (%)	3.2
Methionine (%)	0.8
Phenylalanine (%)	2.0
Proline (%)	3.4
Serine (%)	2.1
Threonine (%)	1.9
Tryptophan (%)	0.8
Tyrosine (%)	3.2
Valine (%)	3.8

Fatty Acids	Typical
Capric Acid (C10:0) (%)	0.1
Lauric Acid (C12:0) (%)	5.0
Myristic acid (C14:0) (%)	0.9
Palmitic acid (C16:0) (%)	1.2
Palmitoleic acid (C16:1) (%)	0.2
Stearic acid (C18:0) (%)	0.3
Oleic acid (C18:1n-9 cis) (%)	1.4
Linoleic acid (C18:2n-6 cis) (%)	1.4
Gamma Linoleic acid (C18:3 n-6) (%)	0.2

Minerals	Typical
Calcium (ppm)	~12000
Phosphorus (ppm)	~8500

Microbial Analysis	Guarantee
E. coli (MPN/g)	< 10
Salmonella (in 25 g)	Negative

NATURAL INGREDIENTS. SUSTAINABLY DEVELOPED.

sales@enterra.com  
+1 604 888 4327  
enterra.com



YOUR PARTNER IN THE FUTURE OF FEED

# EnterraOil™



EnterraOil is a healthy fat ingredient made from sustainable black soldier fly larvae.

- Blend with other ingredients in your formulated pet foods and animal feeds.
- Use as a coating on your pet foods and animal feeds for enhanced palatability.



## EnterraOil™ NUTRITIONAL INFORMATION

**Ingredient:** dried black soldier fly larvae oil

**Antioxidant (optional):** Naturox® Premium Liquid, 500 ppm

**Packaging:** 5-gallon bucket, 16 kg / 35 lb

**Shelf Life:** One year from manufacture

**Country of Origin:** Canada

**Storage:** Store in a cool, dry area

**Directions for use:** Use a heating jacket around the pail to melt the oil prior to use. Do not exceed 75 °C. Prolonged exposure of the pail to high temperatures is not recommended.

Physical Properties	Typical
Total Fatty Acids (%)	98.0
Moisture (%)	0.7

Peroxide Value (meq/kg)	< 0.1
Unsaponifiable Matter (%)	0.7
Insoluble Matter (%)	0.05
Titer (°C)	21.9
Fatty Acids	Typical
Capric Acid C10:0 (%)	1.1
Lauric Acid C12:0 (%)	38.8
Myristic Acid C14:0 (%)	7.2
Myristoleic Acid C14:1w5 (%)	0.1
Palmitic Acid C16:0 (%)	10.4
Palmitoleic Acid C16:1w7 (%)	1.8
Stearic Acid C18:0 (%)	2
Oleic Acid C18:1w9 (%)	18.8
Vaccenic Acid C18:1w9 (%)	0.8
Linoleic Acid C18:2w6 (%)	16.3

(alfa-) Linolenic acid (C18:3 n-3) (ALA)	2.6
Summary of Fatty Acids	Typical
Saturated Fatty Acids (%)	59.7
Monounsaturated Fatty Acids (%)	21.4
Polyunsaturated Fatty Acids (%)	18.9
Omega-3 (% of TFA)	2.6
Omega-6 (% of TFA)	16.3
Omega-9 (% of TFA)	19.5
Trans Fatty Acids (% of TFA)	< 0.1
Microbial Analysis	Guarantee
E. coli (MPN/g)	< 10
Salmonella (in 25 g)	Negative

NATURAL INGREDIENTS. SUSTAINABLY DEVELOPED.

sales@enterra.com  
+1 604 888 4327  
enterra.com