

AgriProtein

Nature's Natural Feed Ingredients



MagOil™

"It takes a minimum of 1.5kg of fishmeal to make 1kg of farmed fish, a scandalous plundering of the ocean's limited resources that threatens the entire marine ecosystem."

Paul Vantomme, United Nations Food & Agriculture Organisation

MagOil™ is a natural fat extracted from **Whole Dried Larvae**, and is highly palatable to animals.

MagOil™ can be blended into a variety of animal feeds, and is a sustainable and healthy energy source for monogastric animals, including chickens, pigs, fish, and companion animals.

MagOil™ is produced when **Whole Dried Larvae** goes through the extrusion process and becomes **MagMeal™**. The extruded fat is purified and available as a feed ingredient.

Appearance

MagOil™ is a light golden brown in colour, and is solid at room temperature.

Storage

Store at ambient temperatures, preferably below 25°C, out of direct sunlight. Shelf life is 12 months from date of production.

Packaging

Available in 210 litre drums, or bulk supply by tanker.

Product Specifications

Total Fatty Acids (min)	900 g/kg
Free Fatty Acids (max)	5 g/kg
Moisture (max)	10 g/kg
Unsaponifiable matter (max)	20 g/kg
Insoluble impurities (max)	0.5 g/kg

AgriProtein has been leading the new industry of insect based nutrient recycling since 2009. AgriProtein scientists and nutritionists have analysed the nutritional value of fly larvae, fed on existing organic waste sources, and have developed and tested this sustainable source of high quality protein.

In 2015, our first full-scale factory came on line, capable of diverting 110 tonnes of organic waste from landfill every day, and using it to grow 22 tonnes of nutrient rich larvae.

Partners



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BILL & MELINDA
GATES foundation



Technical Specification

Common Name	Shorthand	% TFA's
Caprylic acid	C8:0	0.01
Capric acid	C10:0	0.80
Undecylic acid	C11:0	0.01
Lauric acid	C12:0	35.6
Tridecylic acid	C13:0	0.02
Myristic acid	C14:0	5.77
Myristoleic acid	C14:1c9	0.18
Pentadecylic acid	C15:0	0.11
Ginkgolic acid (C15:1)	C15:1c10	0.03
Palmitic acid	C16:0	15.6
Palmitoleic acid	C16:1c9	3.25
Margaric acid	C17:0	0.14
Ginkgolic acid (C17:1)	C17:1c10	0.01
Stearic acid	C18:0	2.76
Elaidic acid	C18:1t9	0.02
Oleic acid	C18:1c9	18.2
Petroselinic acid	C18:1c6	0.56
cis-vaccenic acid	C18:1c11	0.24
Linoleic acid	C18:2c9,12	14.3
Linolelaidic acid	C18:2t9,12	0.03
Conjugated linoleic acid	C18:2c9t11	0.20
alpha-Linolenic acid	C18:3c9,12,15	0.99
gamma-Linolenic acid	C18:3c6,9,15	0.09
Stearidonic acid	C18:4c6,9,12,15	0.16
Arachidic acid	C20:0	0.12
Gondoic acid	C20:1c11	0.10
Eicosadienoic acid	C20:2c11,14	0.10
Eicosatrienoic acid	C20:3c11,14,17	0.01
Dihomo-gamma-linolenic acid	C20:3c8,11,14	0.11
Arachidonic acid	C20:4c5,8,11,14	0.26
Eicosapentaenoic acid	C20:5c5,8,11,14,17	0.17
Heneicosylic acid	C21:0	0.02
Behenic acid	C22:0	0.11
Docosadienoic acid	C22:2c13,16	0.01
Docosahexaenoic acid	C22:6c4,7,10,13,16,19	0.02
Nervonic acid	C24:1c15	0.03

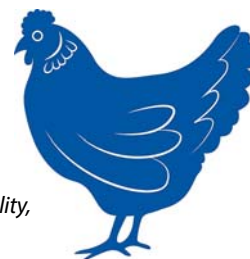
Fish



- Sustainable solution, which improves animal production parameters
- Non-GMO, and a natural blend of essential amino acids
- Replaces up to 100% fishmeal
- Better feed conversion rates
- Healthy & tasty fish

Group of fatty acids	% TFA's
Total Saturated Fatty Acids	60.7
Total Monounsaturated Fatty Acids	21.9
Total Polyunsaturated Fatty Acids	15.9
PUFA/SFA	0.3
PUFA/MUFA	0.8
Total omega-3 fatty acids	1.2
Total omega-6 fatty acids	14.7
n-6/n-3	12.4
Trans fatty acids	0.02
Cis fatty acids	37.2
EPA	0.1
DHA	0.02

Broiler chickens and layer hens



- Healthy, happy, & clean chickens
- Natural solution for improved digestibility, and intestinal health
- Reduced antibiotics & supplements
- Reduced gizzard erosion & strong bones
- Better feed conversion rates
- Heavier eggs, and tasty meat



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For sales enquiries visit www.agriprotein.com, email sales@agriprotein.com, or contact your regional office.

Our environment

- Sustainable
- Low CO2 footprint
- Reduces overfishing
- Non-GMO
- Natural & Organic
- Reduces landfill

