



WHOLE INSECT POWDER (WIP)

PRODUCT SHEET



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Started in 2020, Divaks is developing fully automated vertically integrated insect protein business. Our goal is to create high-quality insect-derived ingredients for the food industry, that excel in nutritional and functional qualities.

Since the beginning of the company, we are committed to sustainable choices – we build our insect farms relying on the principles of circular economy, traceable materials, and a guarantee to ensure the best living, breeding, and rearing conditions to our insects.

This catalogue represents the most important nutritional and functional facts about Whole Insect Powder (WIP). Our sustainable and Novel Food certified ingredient.

GENERAL INFORMATION

NUTRITIONAL CONTENT

per 100 g of product

Energy	2169 kJ/ 519 kcal
Protein	54,4 g
Fat	30,8 g
<i>Saturated fat</i>	9,7 g
<i>Monounsaturated fat</i>	14,9 g
<i>Polyunsaturated fat</i>	7,4 g
Carbohydrates	6,2 g
<i>Sugar</i>	<0,5 g
Fiber	3,7 g
Salt	0,2 g

DESCRIPTION

Our whole mealworm (*Tenebrio molitor*) powder is a nutrient-rich product, offering complete amino acids, prebiotic fibre, healthy fats and a range of essential minerals and vitamins. The excellent composition of whole mealworm powder can add value to a wide variety of applications. The form of fine powder with a subtle, nutty flavour is an ideal choice for protein bars, savoury snacks and bakery products.



WHOLE INSECT POWDER (WIP) BENEFITS

RICH IN HIGH-QUALITY PROTEIN

COMPLETE PROTEIN SOURCE –
CONTAINS ALL ESSENTIAL AMINO ACIDS

RICH IN HIGH-QUALITY FATS

LOW IN SATURATED FATS

NATURALLY CONTAINS
OMEGA 3, 6, 7 AND 9 FATTY ACIDS

NATURALLY HIGH IN
VITAMINS AND MINERALS

NATURALLY HIGH IN FIBER

NON-GMO

SOY-, DAIRY-, AND EGG-FREE

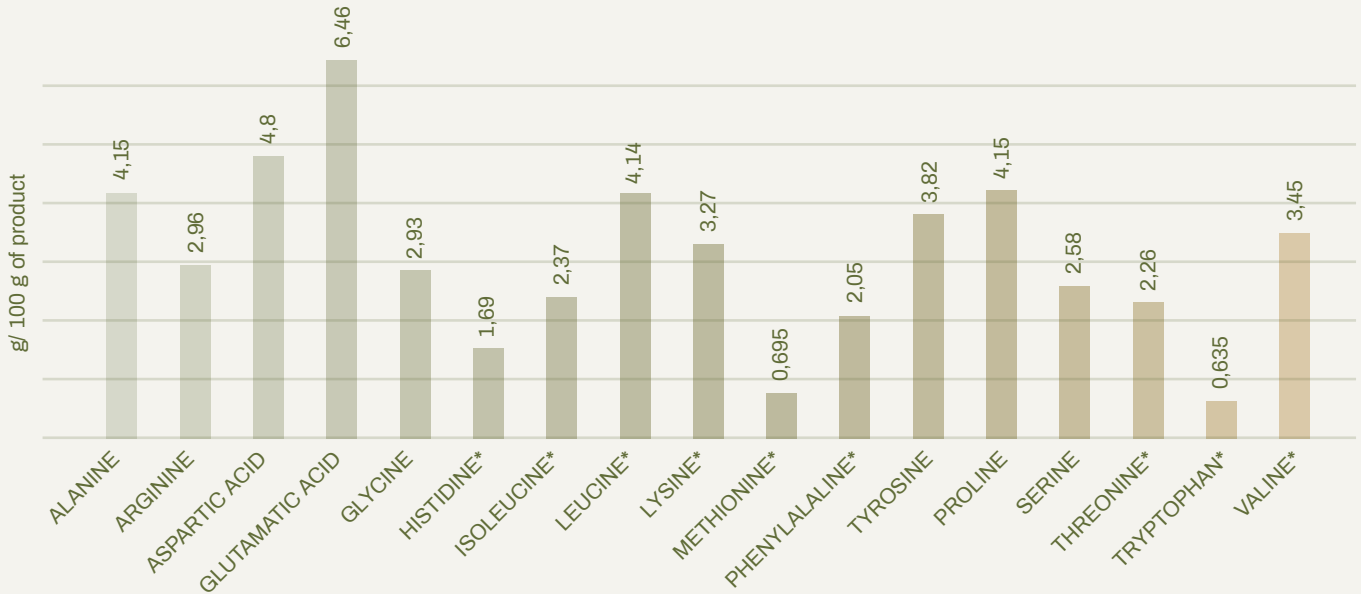


PROTEIN COMPOSITION

COMPLETE PROTEIN PROFILE

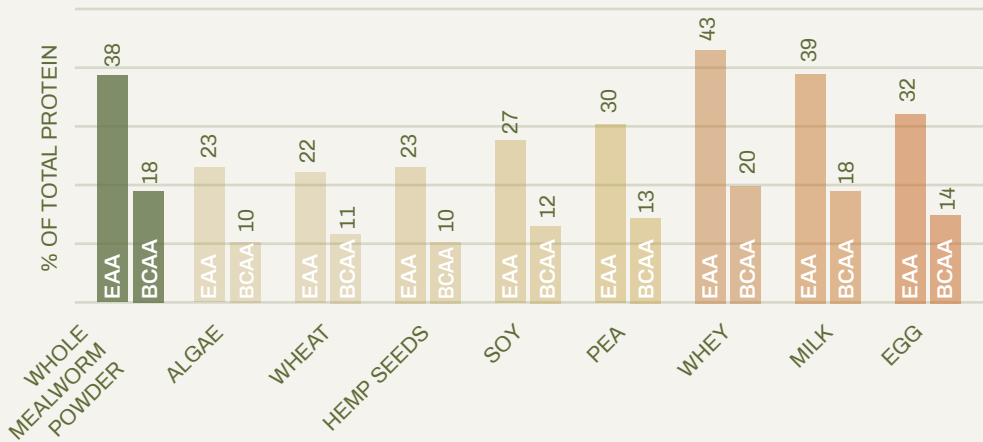
Dried mealworm larvae powder is a high-quality product with a complete protein profile. It is packed with all essential amino acids with a content of 38%. Additionally, the proteins of whole mealworm powder consist of 18% branched-chain amino acids (BCAAs). The excellent profile of amino acids makes whole mealworm powder a competitive choice among other plant-based or animal-based protein sources.

AMINO ACID PROFILE

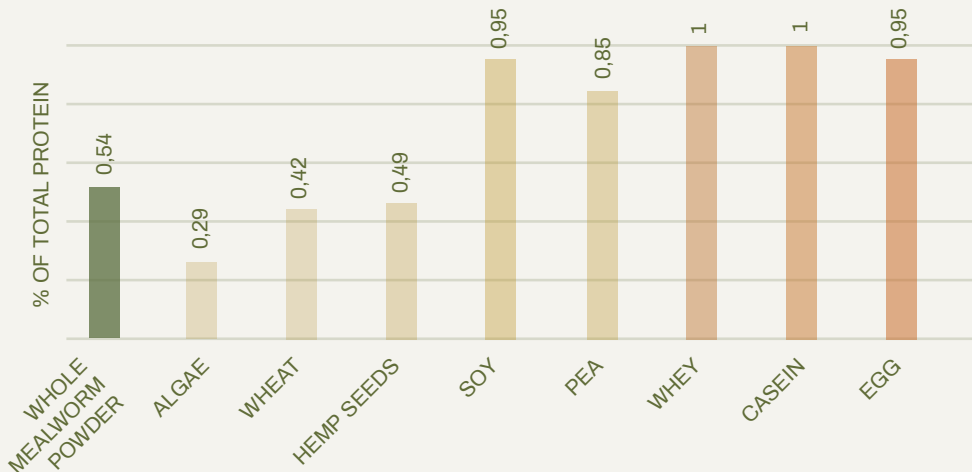


*Essential amino acids

ESSENTIAL AMINO ACIDS (EAA) VS BRANCHED-CHAIN AMINO ACIDS (BCAA)

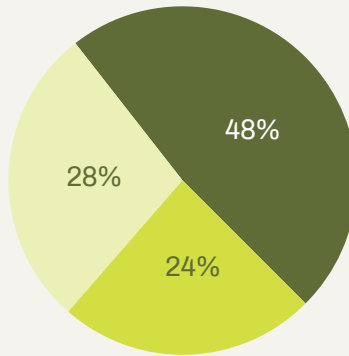


PROTEIN DIGESTIBILITY-CORRECTED AMINO ACID SCORE (PDCAAS)



FATTY ACID PROFILE

FATTY ACIDS	%
Omega 3	1,63
C 16:3	0,77
C 20:3	0,10
C 20:5	0,76
Omega 6	21,86
C 18:2	21,86
Omega 7	2,57
C 16:1	2,57
Omega 9	45,13
C 18:1 n9	45,01
C 20:1	0,12
C 12:0	0,22
C 14:0	2,79
C 15:0	0,15
C 16:0	20,28
C 17:0	0,16
C 17:1	0,28
C 18:0	3,75
C 18:1 C11	0,23
C 18:1 c	0,25
C 20:0	0,23



 Saturated  Monounsaturated  Polyunsaturated

VITAMINS AND MINERALS COMPOSITION

VITAMINS

	per 100 g of product	% of DRI*
Vitamin C	4,65 mg	5
Vitamin D3	2,5 µg	17
Vitamin D2	0,25 µg	2
Vitamin B1	0,269 mg	37
Vitamin A	210 µg	37
Vitamin B12	0,25 µg	6
Vitamin B2	0,701 mg	54
Vitamin B3	12,4 mg	17
Vitamin B5	4,18 mg	2
Vitamin B8	154 µg	37
Vitamin B9	158 µg	37
Vitamin E	0,745 mg	6
Vitamin K1	1,89 µg	54

MINERALS

	per 100 g of product	% of DRI*
Calcium	51,7 mg	6
Magnesium	266,1 mg	76
Copper	1,48 mg	93
Iron	6,77 mg	113
Manganese	0,895 mg	30
Zinc	15,93 mg	125
Potassium	848,1 mg	24
Phosphorus	815 mg	148

*Daily Recommended Intake, category: male adults

MAXIMUM USE LEVELS IN FOOD

	g/100 g*
Multigrain bread and rolls; crackers and breadsticks	10
Cereal bars	15
Dried pasta based products; pasta based dishes (excluding dried puffed pasta); pizza and pizza-like dishes	10
Dried stuffed pasta based products	15
Pre-mixes (dry) for baked products	15
Sauces	10
Potato, legumes based dishes	10
Whey powder	20
Meat analogues and pizza-like dishes	50
Soups and salads	5
Chips/crisps	20
Beer-like beverages; mixed alcoholic drinks; alcoholic drink mixes	1
Chocolate confectionery	10
Nuts, oilseeds and chickpeas	30
Frozen fermented milk-based products	5
Meat preparations	16

*Commission Implementing Regulation (EU) 2022/169 of 8 February 2022 authorising the placing on the market of frozen, dried and powder forms of yellow mealworm (*Tenebrio molitor* larva) as a novel food under Regulation (EU) 2015/2283 of the European Parliament and of the Council, and amending Commission Implementing Regulation (EU) 2017/2470



ADDITIONAL INFORMATION

Supply form	Powder of dried <i>Tenebrio molitor</i> larvae in plastic bags
Storage conditions	+5°C - + 25°C max 12 months
Flavour	Slightly nutty flavour
Colour	Golden powder, dark gold shade due to the existing chitin
Allergens	Cereals containing gluten and products thereof. Please note that research on cross-reactive proteins in insects has shown that there is evidence of cross-reactivity with proteins in crustaceans, molluscs and house dust mites
Purpose of use	The product is prepared for indirect human consumption for any group of consumers except baby food preparation. Trade in restaurants, and food processing plants
Regulations	Regulation (EU) No 1169/2011, Regulation (EU) 2015/2283 and Regulation (EU) 2022/169
State Food and Veterinary Service approval number	LT 01-47

The above-mentioned information is based on our experience as well as on internal standardized tests and is not to be interpreted as a warranty or guarantee in any form, as conditions beyond our control can affect the quality of the product. In case of doubt, the user should always make every effort to ensure that the products used are appropriate for the purpose intended.



The possibilities of insect - derived ingredients are endless. Whether you are producing meat substitutes, sports nutrition, snacks, bakery or confectionery products, it can give a boost to any member of the food industry. High - quality, transparency and innovations are a part of our values. Why not add them to your business as well?

CONNECT WITH US



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