

Specification Sheet

General Information	
Product name	Enzymes
Standard	In house
Specification ref.	GB003
Issue number	1
Date of Issue	31.10.2022
Capsules	Transparent, HPMC size 00
Capsules in package	60 pcs.
Package	Jar 150 ml
Form	Powder in capsules
Process used during production	Sieving components, mixing, filling capsules, polishing capsules, labeling, filling dedicated bags with capsules, closing jars, packing according to the document of palletisation..
Suitable for vegetarians / Suitable for vegans	Yes/Yes
Mass of powder filling the capsules [mg]	670 ± 7%
Mass of capsules [mg]	790 ± 7%
Mass of capsules in package [kg]	0,0474 ± 7%
Country of origin	Poland
Analysis	Specification
Apperance of capsules	Transparent capsules rounded cap and rounded body
Apperance of powder	Brown loose powder
Aroma / Odour	Characteristic for enzymes blend
Flavour	Nd
Moisture [%]	≤ 5
Contamination	No
Microbiology	
Enumeration of mesophilic aerobic bacteria	≤ 1x10 ⁴ CFU / g
Enumeration of fungi (molds and yeasts)	≤ 10 ³ CFU / g
Detection of Escherichia coli	Absence in 1 g
Detection of coagulase-positive staphylococci (Staphylococcus aureus and other species)	Absence in 1 g
Detection of Salmonella spp.	Absence in 25 g
Heavy metals	
Cadmium	≤ 1,0 ppm
Lead	≤ 3,0 ppm
Mercury	≤ 0,1 ppm

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List of Ingredients (decreasing value)	
Compound	Function
Maltodextrin	Bulking agent
Digestive enzymes blend	Main ingredient
Hydroxypropylmethylcellulose	Capsule shell
Magnesium salts of fatty acids E470b	Anti-caking agent

Enzymes Activity Information		
Enzyme	in portion	
	one capsule	
α -amylase (1,4 – alpha – D – glucan glucanohydrolase) (Origin: <i>Aspergillus oryzae</i>)	6240	SKB
Protease (4.5) (Origin: <i>Bacillus licheniformis</i>)	5980	HUT
Lipase (Triacylglycerol acylhydrolase) (Origin: <i>Aspergillus oryzae</i>)	312	FIP
Laktase (Beta – D – galactosidase galactohydrolase) (Origin: <i>Aspergillus oryzae</i>)	780	ALU
Cellulase (4 - (1,3;1,4) – beta – D – glucan 4 – glucanohydrolase) (Origin: <i>Trichoderma reesei</i>)	286	CU
Glucoamylase (1,4 - α – D – Glucan glucohydrolase) (Origin: <i>Aspergillus niger</i>)	7,8	AGU
Protease (3.0) (Origin: <i>Aspergillus oryzae</i>)	5,2	SAPU
Bromelain (Origin: Stem of <i>Ananas comosus L.</i>)	104000	PU
Papain (Origin: Latex of <i>Carica papaya L.</i>)	26000	PU
α – Galactosidase (α -D-Galactoside galactohydrolase) (Origin: <i>Aspergillus niger</i>)	20,8	GAL

Enzymes Origin Information
α -amylase (1,4 – alpha – D – glucan glucanohydrolase) (Origin: <i>Aspergillus oryzae</i>) (CAS: 9001-19-8; EC: 232-588-1; Enzyme commission: 3.2.1.1);
Protease (4.5) (Origin: <i>Bacillus licheniformis</i>) (CAS: 9014-01-1; EC: 232-752-2; Enzyme commission: 3.4.21.62);
Lipase (Triacylglycerol acylhydrolase) (Origin: <i>Aspergillus oryzae</i>) (CAS:9001-62-1; EC: 232-619-9; Enzyme commission: 3.1.1.3);
Laktase (Beta – D – galactosidase galactohydrolase) Origin: <i>Aspergillus oryzae</i> (CAS: 9031-11-2; EC: 232-864-1; Enzyme commission: 3.2.1.23);
Cellulase (4 - (1,3;1,4) – beta – D – glucan 4 – glucanohydrolase)(Origin: <i>Trichoderma reesei</i>) (CAS: 9012-54-8, EC: 232-734-4, Enzyme commission: 3.2.1.4);
Glucoamylase (1,4 - α – D – Glucan glucohydrolase) (Origin: <i>Aspergillus niger</i>) (CAS: 9032-08-0; EC: 232-877-2; Enzyme commission: 3.2.1.3)
Protease (3.0) (Origin: <i>Aspergillus oryzae</i>) (CAS: 9025-49-4; EC: 232-796-2; Enzyme commission: 3.4.23.18)
Bromelain (Origin: Stem of <i>Ananas comosus L.</i>) (CAS: 37189-34-7; EC: 253-387-5; Enzyme commission: 3.4.22.32)
Papain (Origin: Latex of <i>Carica papaya L.</i>) (CAS: 9001-73-4; EC: 232-627-2; Enzyme commission: 3.4.22.2)
α – Galactosidase (α -D-Galactoside galactohydrolase) (Origin: <i>Aspergillus niger</i>) (CAS: 9025-35-8; EC: -; Enzyme commission: 3.2.1.22)

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Allergens according to Regulation No. 1169/2011 and its amendments		
Allergen name	Present Yes/No	Additional information
BHA/BHT/Related compounds	No	
Bovine products or by-products	No	
Celery or products thereof	No	
Cereals containing Gluten (Wheat, rye, barley, oats, spelt, kamut or their hydrolysed strains) or products thereof	No	
Crustaceans/Shellfish or products thereof	No	
Eggs or products thereof	No	
Fish or products thereof	No	
Milk or Milk products (including lactose)	No	
Mustard seed or products thereof	No	
Nuts or products thereof	No	
Peanuts or products thereof	No	
Sesame seeds or products thereof	No	
SO ₂ or Sulphate at concentration over 10mg/kg	No	
Soya beans or products thereof	No	
Molluscs or products thereof	No	
Lupin or products thereof	No	

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Additional information

Information on enzymes: Enzymes are tested to FCC standards. Enzymes are protected from gastric juice.

Instruction of use: 1 capsule should be taken with plenty of water. Do not exceed the recommended daily dose.

Expiry date: 24 months from the production date.

Storage conditions: Store the finished product in a sealed package in a dry place, away from direct sunlight, under 25 °C and under moisture of 75%. Keep out of reach of small children.

Transport conditions: the product must be transported in a clean and dry vehicle that has been approved for food transport.

Regulatory Statements:

GMO Status: This product is GMO FREE in accordance with EU Regulations 1829/2003 and 1830/2003.

Irradiation Status: This product has not been irradiated in accordance with EU directive 1999/2/EC of 22 February 1999 concerning foods and food ingredients treated with ionisation radiation.

Nano materials: This material is not produced using Nanotechnology and is free from Nano-particles, and so complies with EU regulations 1169/2011 and 2015/2283.

Contaminants: The product and its ingredients meet the requirements for maximum permitted levels of contaminants in foodstuffs laid down in Regulation No. 1881/2006, as amended.

Packaging: The primary packaging used for the blends manufactured at Global Blend are suitable for contact with food and in compliance with EC regulation 1935/ 2004 and its amendments thereof.

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