VEMO 99 Ltd

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Specification:

VemoZyme® M – enzyme premix for feed Product name:

 β -Mannanase (IUB 3.2.1.78.), Xylanase (IUB No 3.2.1.8.), Enzyme Composition:

Preparation: β-Glucanase (IUB No 3.2.1.6.), Cellulase (IUB No 3.2.1.4.), α-Amylase (IUB No 3.2.1.1.), α-Galactosidase (IUB No 3.2.1.22.),

Protease (IUB No 3.2.24.28.), Lipase (IUB No 3.2.1.3.), Pectinase (IUB No 3.2.1.15.)

	Carrier: Calcium carbonate (CaCO ₃) and Ma	ltodextrin
Ch	aracteristics and standards	
1.	Appearance	Microgranule
2.	Colour	Light beige to beige
3.	Taste & Odour	Specific
4.	Water, %, not more than	10.0
5.	Enzyme activity, U/g, not less than	
	- β-Mannanase / Endo-1,4-beta-mannanase	
	Assay of endo-1,4-beta-mannanase using beta-mannazyme tablets (Megazyme) -	400
	One Unit of activity is defined as the amount of enzyme required to release one micromole of mannose reducing-sugar equivalents per minute under the defined	400
	assay conditions (pH 4.0 and temperature 40°C)	
	- Xylanase / Endo-1,4-beta-xylanase	
	(One Unit is the amount of enzyme that releases low-molecular fragments from	18 000
	dyed xylan in amount equal to the amount of such fragments liberated from 1	18 000
	unit enzyme standard under the conditions of the assay (T 50°C and pH 4.7).	
	- β-Glucanase / Endo-1,3(4)-beta-glucanase	
	(One unit of endo-1,3(4)-beta-glucanase is defined as the enzyme needed to liberate 1 µmol reducing sugar (glucose) per minute from barley beta-glucan in	450
	condition of pH 6.8 and temperature 45°C)	
	- Cellulase / Endo-1,4-beta-glucanase	
	(One unit of Celulase (CU) is defined as the enzyme needed to liberate 1 μmol	1 350
	reducing sugar (glucose) per minute from Na-CMC (carboxy methyl cellulose-	1550
	sodium salt) in condition of pH 5.0 and temperature 50°C)	
	- a-Amylase	
	(One unit of amylase activity (AU) is expressed through the quantity of enzyme preparation, needed to hydrolyse 1 g starch for 10 minutes, at a temperature	Side activity
	30°C and pH 6.0)	
	- Protease	
	(The proteolytic activity (PA) is expressed in tyrosine units and is defined as the	Side activity
	quantity of enzyme preparation, which liberates 1 μ g tyrosine from casein for 1 minute at 30°C and pH 7.0)	•
	- Lipase	
	(One unit of Lipase (FIP U) is defined as the enzyme needed to liberate 1 μ	Side activity
	equivalent of fat acids per minute in condition of pH 7.0 and temperature 37°C)	
	- α-Galactosidase	
	(One unit (U) will hydrolyse 1.0 mol of p-nitrophenyl-a-D-galactopyranoside to	Side activity
	p-nitrophenol and D-galactose per minute at pH 5.5 at 37°C)	
	- Pectinase (One unit Polygalactoronase activity is defined as enzyme needed to obtain 1 μmol	Side activity
	galacturonic acid per 1 minute in condition of pH 5.0 and 40° C)	Side delivity
6.	Heavy metals, mg/kg, not more than:	
	- Lead (Pb)	20.0
	- Arsenic (As)	15.0
	- Cadmium (Cd)	2.0
	- Mercury (Hg)	0.3
7.	Microbiological parameters	
	Total Viable Count, CFU/g, not more than	5.104
	Mould and Yeast, CFU/g, not more than	1.10 ³
	E. coli, Salmonella spp., S. aureus, CFU/g	Must not be detected
	Packaging	Polyethylene bag + paper box / bag: 25 kg
9.	Storage	Store in dry and cool places, away from direct sunlight
		19 months under the proviously martiaged
10.	Shelf life	18 months under the previously mentioned conditions in its original packaging
		conditions in its original packaging

VemoZyme® M improves the feed digestion and assimilation.

It is designed for the production of animal feeds.

Dosage: 100 g/t feed for pigs and poultry













