



TURVAL[®] - B0399[®]/500 Z

Lactic* Yeast* *Kluyveromyces marxianus* B0399
Complementary Feed -zootechnical use

Product Description:	It is a selected strain of live Lactic* Yeast <i>Kluyveromyces marxianus fragilis</i> B0399 and the yeast growth media containing high content of protein, amino acids and nucleotides.		
Analysis: (%on total product) (Indicative values)	Ashes	6 - 14	Water content < 9
	Crude fibre on dry matter	12 - 15	Proteins 40 - 52
	<i>Kluyveromyces marxianus fragilis</i> B0399 > 500x10 ⁶ CfU/g (analytical method: cell count in Burkler chamber with metilene blu, accuracy ± 0,5 log CFU/g)		
Ingredients	<i>Live Lactic* Yeast Kluyveromyces marxianus fragilis</i> B0399, (*): No milk ingredients or derivatives included.		
Process:	Aerobic multistadium process on a sugary substrate and successive slow and low temperatures spray drying (To<110°C).		
Appearance:	beige powder (Variation in color is common and does not affect product performance.).		

ANALITICAL DATA:

Indicative values.

FREE AMINO ACIDS (after hydrolysis)	%	FREE AMINO ACIDS (after hydrolysis)	%	VITAMINS	mg/Kg
Aspartic Acid	4,5			Vitamin B1 (thiamin)	12,5
Glutamic Acid	5,96	Leucine	3,84	Vitamin B2 (riboflavin)	33,2
Alanine	5,22	Lysine	3,27	Vitamin B5 (pantothenic acid)	33,2
Arginine	1,86	Proline	2,2	Vitamin B6 (pyridoxine)	13,6
Phenylalanine	2,09	Serine	2,86	Vitamin B12 (cyanocobalamin)	0,04
Glycine	2,41	Tyrosine	1,47	Vitamin PP (niacin or nicotinamide)	460
Hydroxyproline	<LQ	Threonine	2,78	acido folico	2,21
Isoleucine	2,03	Valine	2,47	Vitamin E	9,1
Histidine	1,08	Methionine	0,636	Coline clorure	3490

GENERAL INFORMATION

Expiration date:	1 year from production date	Pesticides:	EC Regulation 396-2005 and subsequent amendments and additions.
Net Weight:	Sack (25 or 20 kg each)	Grain size	85% < 500 um
Storage and handling:	Best to store in cool and dry area. However, storage improves if you keep it at +4-8 ° C.	Mycotoxins:	EC Regulation 1881-2006and subsequent amendments and additions.
		Foreign material:	absent.

GMO FREE – NO ALLERGENS

RECOMMENDATIONS

Pelletizing	Make pellet at cold temperature (<40°C)
Handling / process indications:	Use all the techniques of good process practice, production and control of the plant. Adopted mixing procedures must: -ensure the homogeneity of the final mixture -performed at room temperature -does not alter the inherent moisture of the product

DIRECTIONS FOR USE

For cattle (US-FDA approved)

- **Milk cows:** 5-8 gr. per head per day;
- **Cattle for fattening:** 3-5 gr per head per day
- **Calves:** 2-4 gr per head per day

We suggest to use the additive Turval B0399/500 in combination with yeast *Saccharomyces cerevisiae*: in this case the above dosage can be reduced up to 50%

For swine (CE and US-FDA approved)

For piglets up to 30kg:

- **Weaning phase and post weaning phase:** 0.4-0.5 Kg per 1,000 Kg complete feed

If the piglets were treated since weaning or since the first phase of post-weaning, the suggested inclusion rate can be reduced to: 0.3-0.5 Kg per 1,000 Kg of complete feed

In swine over 30 kg: 0.2 Kg per 1,000 Kg of complete feed

To obtain best results, Turval B0399 should be administered continually.

For horses (US-FDA approved)

TURVAL B0399/500 is added to the daily ration of fodder in the following quantities:

- **Foals:** 3-4 gr. per head per day;
- **Weaning colts:** 8-12 gr. per head per day;
- **One year old colts, Adults, Broodmares and Stallions:** 10-15 gr. per head per day.

During the first few days of use and as adjuvant, double or triple dosage is recommended.

We suggest to use the additive Turval B0399/500 in combination with yeast *Saccharomyces cerevisiae* (at the same dosage).

For camels and camelids (Llamas and alpacas) (US-FDA approved)

TURVAL B0399 is added to the daily ration in the following quantities:

- **Crias:** 2-4 gr. per head per day
- **Alpacas:** 4-6 gr per head per day
- **Llamas:** 10-15 gr per head per day
- **Calves:** 2-4 gr per head per day
- **Female camels:** 14-18 gr gr per head per day
- **Bulls:** 8-10 gr per head per day

For dogs

The additive TURVAL B0399 should be added to daily ration or feed in the following quantities:

- **Small-size dogs (2-10kg)** 0.1-0.2 gr per head per day
- **Medium-size dogs (10-20kg)** 0.2-0.3 gr per head per day
- **Large-size dogs (20-40kg)** 0.3-0.4 gr per head per day

Active, pregnant or nursing dogs: the dosage can be double.

For broilers

The additive TURVAL B0399 should be added to daily ration or feed in the following percentage:

- **Starter-type feed:** 300 gr per 100 kg of Starter formulated / 1.1 kg per 1000 lt of drinking water
- **Grower-type feed:** 70 gr per 100 kg of Grower-type feed / 260 gr per 1000 lt of drinking water
- **Finishing-type feed:** 20 gr per 100 kg of Finishing-type feed / 75 gr per 1000 lt of drinking water