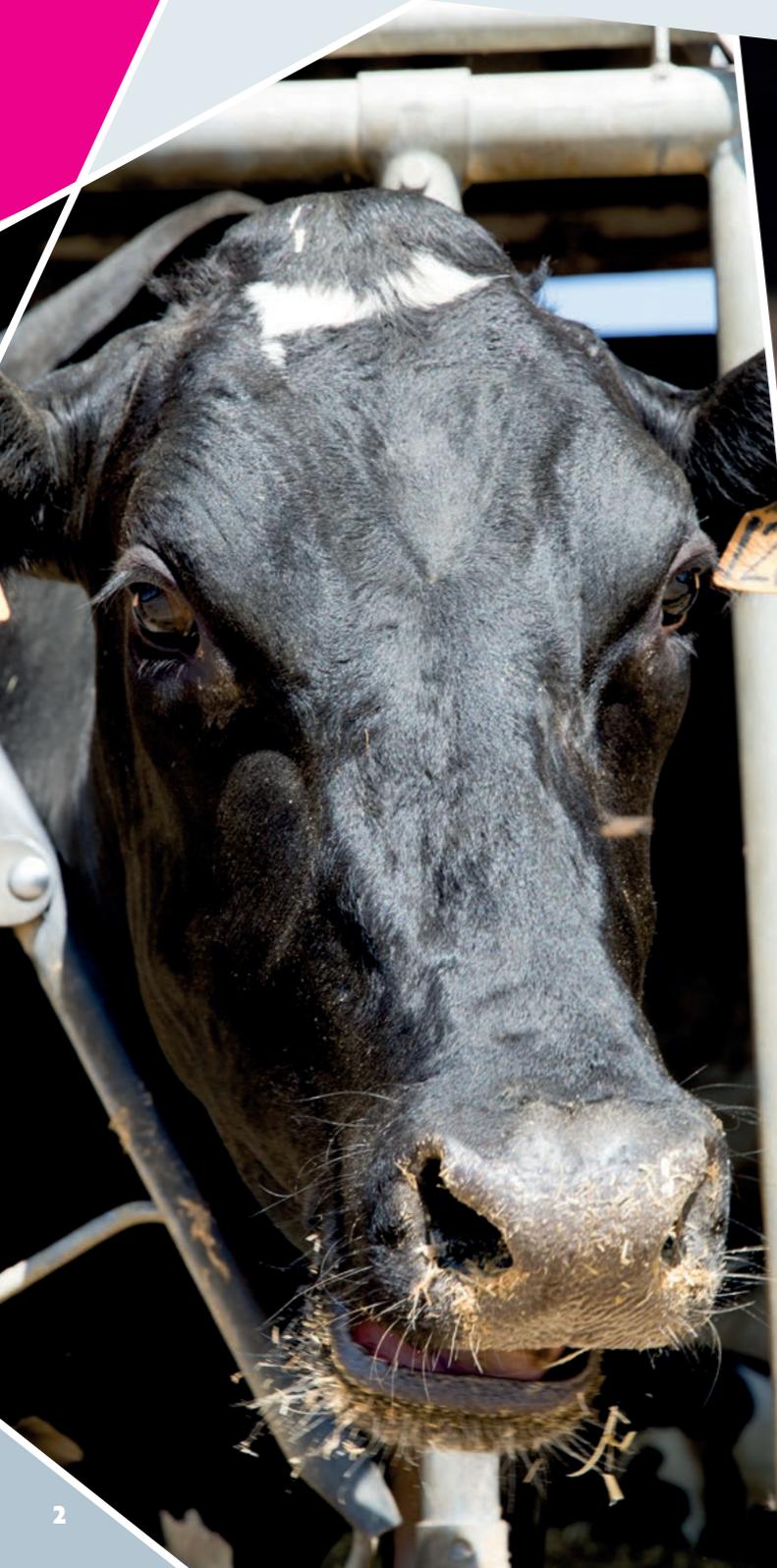


RUMINANTS



MAZZOLENI



RUMINANTS is a product line specifically designed for young and adult ruminants, developed from the deep know-how of Mazzoleni SpA in feed formulation.

RUMINANTS line is based on high technological and performing products, tested in the biggest Italian and European farms and supported by a high-qualified technical service to guarantee excellent results.

RUMINANTS line is manufactured at the Mazzoleni SpA production plant located in Cappella Cantone, the modern plant opened in 2012 and is specialized in creating technical products.

Thanks to an innovative production Layout and to the presence of 75 automatic dosing silos, the facility allows great flexibility while ensuring absolute precision.

Thanks to these characteristics, we can design customized solutions to further expand the range of products to meet any technical and commercial need.

The **RUMINANTS** line using this production technology, in compliance with quality standards GMP+ and FAMI-QS, ensures for every product maximum quality and reliability.



RUMINANTS

- **HIGH QUALITY:**

The deep technical evaluation of the ingredients and on farm test of the final products ensure the highest quality.

- **COST-EFFECTIVENESS:**

The deep global market and farming knowledge allow Mazzoleni SpA to find effective and affordable solutions.

- **HIGH TECHNOLOGY**

Ruminats line offers products based on natural ingredients with improved effectiveness thanks to the advanced production technologies.

DAIRY COWS AND BEEF CATTLE

p. 8

- Actiflu
- Revidral
- Algomin
- Brewer yeast SPY and Grain
- Ruminase

YOUNG ANIMALS

p. 18

- Prebio
- Prebio x
- Hydrolite
- Globifen

ACTIFLU

Complementary feed for cattle and pigs

TECHNICAL NOTES:

ACTIFLU effectively combines natural anti-inflammatory action of plant extract and antioxidant and immune booster activity of chelated trace minerals.

During inflammation due to disease (e.g. respiratory disease, mastitis, metritis, locomotor apparatus disease etc.), acidosis or heat stress, an imbalance between reactive oxygen species production and scavenging occurs leading therefore to a high oxidative stress. Natural extract of Astraceae, Rosaceae, Salicaceae and Liliaceae contains COX inhibitors that reduce pro-inflammatory prostaglandins, that promotes fever, pain and inflammation.

Zinc, Manganese and Copper, provided in high bioavailable form, are components of superoxide dismutase, a powerful free radical scavenger, while yeast and methyl sulphonyl methane both improve anti-inflammatory and detoxifying activity of **ACTIFLU**.

ACTIFLU

Complementary feed for cattle and pigs

COMPOSITION: blend of vegetal products from Astraceae, Rosaceae, Salicaceae and Liliaceae, Micronized carrubin, Brewer Yeast form *Saccharomyces cerevisiae*, Wheat middlings, Methyl sulphonyl methane, Wheat flour.

NUTRITIONAL VALUES (ON AS IS):

Crude protein	16.5%
Crude Fat	5.0%
Crude fiber	7.0%
Crude ash	12.0%
Sodium	0.1%
Lysine	0.9%
Methionine	0.2%

ADDITIVES (PER KG):

VITAMINS, PRO PROVITAMINS AND SUBSTANCES HAVING A SIMILAR EFFECT:

Vitamin E 3a700	2.000 mg
Vitamin C rumen protected 3a300	4.000 mg

COMPOUNDS OF TRACE ELEMENTS:

E4 Cupric chelate of glycine hydrate	3.171 mg
3b607 Zinc chelate of glycine hydrate (solid)	22.156 mg
E 5 Manganese chelate of glycine hydrate	9.518 mg

SUGGESTED DOSAGE:

Diary cows	30 - 70 g/head/day
Beef cattle	20 - 50 g/head/day
Calves	10 - 15 g/head/day
Piglets (7-25 kg)	0.6% of complete feed
Grower	0.5% of complete feed
Sows	0.5% of complete feed



20 kg bag

REVIDRAL

Complementary feed for dairy cows

TECHNICAL NOTES:

For dairy ruminants good partum and subsequent days management is crucial and impact on the production of the whole lactation. At this stage the animal is subjected to different stressors as handling, parturition, immune depression, hormonal changes and increased requirements of key nutrients (doubled for the amino acids, three fold for glucose, four times for calcium), the negative energy balance with consequent lipid mobilization and related risk of liver accumulation (fatty liver) as well as the reoccurrence of silent viruses (eg. BRSV, BHV-1, BVD). Around parturition lots of liquids are lost due to delivery and colostrum production, moreover feed intake around calving is marginal, therefore the provision immediately after birth of 1kg REVIDRAL diluted in 20-25 liters of warm water:

- replace the fluids lost with the delivery of calf, fluids and fetal entice;
- provides sodium and potassium to compensate the strong electrolytes lost;

- supplies highly bioavailable Calcium with the aim to meet the massive demands of the beginning lactation and prevent Hypocalcemia;
- provides monosaccharides and lactose to elicit a fast rise in blood glucose, reducing the risk of excessive fat mobilization and thus ketosis;
- supplies vitamins and highly bioavailable trace minerals (Beta-Carotene, Zinc, Manganese, Iron and Selenium).

Compared to the first generation drench, that needed to be administered in a forced way REVIDRAL is easy to use. Thanks to its extraordinary palatability, guaranteed by the excellent solubility and effervescence can be prepared and left close to the cow immediately post-partum to ensure the immediate intake.

The systematic utilization of REVIDRAL helps to promote a fast physiological recover after parturition and reduce the risk of:

- hypocalcemia
- retained placenta and metritis
- ketosis
- left abomasum displacement



15 kg bucket



1 kg bag

REVIDRAL

Complementary feed for dairy cows

COMPOSITION: Dextrose anhydrous, Calcium gluconate, Fat filled whey powder (coconut oil), Sodium Chloride, Potassium Citrate, Sodium bicarbonate, Sucrose.

ANALYTICAL CONSTITUENTS (ON AS IS):

Crude protein	1.0%
Crude oils and fats	2.9%
Crude fiber	0.0%
Crude ash	19.5%
Sodium	5.5%

ADDITIVES (PER KG):

VITAMINE, PROVITAMINE E SOSTANZE AD EFFETTO ANALOGO:

Vitamin A 3a672a	850.000 UI
Beta-carotene 3a160(a)	200 mg
Vitamin D3 3a671	20.000 UI
Vitamin E 3a700	800 mg

COMPOUND OF TRACE ELEMENTS:

3b607 Zinc chelate of glycine hydrate (solid)	1.986 mg
E 5 Manganous sulphate monohydrate	431 mg
E 5 Manganese chelate of glycine hydrate	435 mg
E1 Iron chelate of glycine hydrate	925 mg
3b202 Calcium iodate anhydrous	39 mg
E8 Sodium selenite	4.4 mg
3b815 L-selenomethionine (Essential selenium 4000)	1.8 mg

PRESERVATIVES:

E330 Citric acid
E331 Sodium citrate

BINDERS:

E 551a Silicic acid, precipitated and dried	25.000 mg
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INSTRUCTION OF USE:

REVIDRAL should be left to the free disposition of the animal immediately after birth. Dissolve in a container 1kg of product in 10 liters of water at 40-45 ° C. Then add another 10 liters of cold water, so as to reach a temperature of about 25-30°C.

ALGOMIN

Mineral complementary feed for ruminants

TECHNICAL NOTES:

ALGOMIN is a mineral complementary feed that contains natural rumen pH conditioners as Lithothamnium calcareum, oyster shell and magnesium oxide combined with natural extract of eugenol and geraniol capable to improve rumen efficiency. Compared to sodium bicarbonate, **ALGOMIN** has a more sustained rumen buffering effect and higher effectiveness approaching to low rumen pH values. Sodium bicarbonate indeed exerts its maximum buffering capacity at pH level of 6.2-6.3, higher than those typically recorded for high energy diets of high yielding cows and goats and finishing beef cattle or lamb. On the contrary, **ALGOMIN** provides calcium carbonate from Lithothamnium and oyster shell, characterized by high solubility at rumen pH typical of diets with high energy density. Once solubilized calcium carbonate can neutralize a double amount of protons compared to

sodium bicarbonate. Together with long lasting buffering effect, magnesium oxide helps to limit pH drop, while geraniol and eugenol helps to improve rumen efficiency.

ALGOMIN also provides significant amount of calcium, necessary to support the high requirements of dairy ruminants and to balance Ca:P ratio of beef cattle and lamb diets with high level of cereals, thus limiting the risk of urolithiasis. **ALGOMIN** is to be included in the TMR at the suggested dosage



ALGOMIN

Mineral complementary feed for ruminants

COMPOSITION: Lithothamnium, Calcareous marine shells, magnesium oxide, wheat flour, natural plant extract from cinnamon and nutmeg

ANALYTICAL CONSTITUENTS (ON AS IS):

Calcium	31.4%
Sodium	0.5%
Magnesium	2.9%
Phosphorus	0.0%

SUGGESTED DOSAGE:

following the instruction of your nutritionist. In case of total or partial replacement consider the whole mineral profile of the diet (Ca, P, DCAD).

Suggested dosage:

Dairy cows	75 - 150 g/head/day
Beef Cattle	40 - 60 g/head/day
Dairy sheep and goats	0.7-1.0% of the complete feed
Fattening lambs	1.0% of the complete feed



25 kg bag

BREWER YEAST SPY AND GRAIN

Complementary feed for dairy cows, cattle for fattening, sheeps, goats, fattening lambs

TECHNICAL NOTES:

LIEVITO SPY is a complementary feed with probiotic action from live yeast *Saccharomyces cerevisiae*. The live **LIEVITO SPY** acts as a ruminal probiotic, controlling metabolism and improving the efficiency of feed. Its mode of action has numerous advantages:



- **Decrease oxygen concentration in the rumen.** Although rumen is considered totally anaerobic, it contains oxygen in a concentration that varies from 0.5 to 1.0%. Oxygen is toxic for anaerobic microorganisms and reduces the adhesion of cellulolytic bacteria to the fiber. The fast and efficient extraction of oxygen from the rumen strongly stimulates the growth of these kind of microorganisms.
- **Stimulation of rumen microflora.** Thanks to the activity of yeast, there is an increase of the growth of rumen bacteria and, in particular, of cellulolytic bacteria. Therefore there is a marked increase of the digested fiber, a better use of ammonia and, consequently, an increased flowing of microbial protein into the duodenum.
- Brewer **yeast SPY** is also available in **GRAIN** form, in which live yeast is in sphere that make it **resistant to pelleting**.

BREWER YEAST SPY AND GRAIN

Complementary feed for dairy cows, cattle for fattening, sheeps, goats, fattening lambs

- **Control rumen pH.** The production of dicarboxylic acids from yeasts, mainly Malic Acid, promotes the growth and activity of the bacteria users of Lactic Acid, essential concerning ruminal level, in the prevention of dangerous unexpected decreasing of the pH itself.

COMPOSITION: Brewery yeast from *Saccharomyces cerevisiae*, Sucrose.

ANALYTICAL CONSTITUENTS (ON AS IS):

Crude protein	41.0%
Crude oil and fats	5.0%
Crude fiber	1.1%
Crude ash	6.0%
Lysine	2.8%
Methionine	0.7%

NUTRITIONAL ADDITIVES:

GUT FLORA STABILIZERS:

Saccharomyces cerevisiae NCYC Sc 47
Soc.Ind.Lesaffre 4b1702/E1702 625 x 10⁹ CFU

CHARACTERISTICS:

LIEVITO SPY is a light brown micro pellet size, and characterized by a typical odor of yeast.

RECOMMENDED DOSAGE:

Dairy Cows	20 - 50 g/h/d
Beef Cattle	10 - 30 g/h/d
Sheeps and goats	3-5 g/head/day
Fattening Lambs	5 g/head/day



25 kg aluminium bag

RUMINASE

Brewer yeast from *Saccharomyces cerevisiae*

TECHNICAL NOTES:

RUMINASE is a natural product derivative of an extremely pure source of *Saccharomyces cerevisiae*. RUMINASE is obtained from the malt fermentation and it is characterised by a high biological value and a very good level of high bioavailability essential amino acids. It also supplies B vitamins and nucleotides and it stands out for its excellent palatability.

RUMINASE is a top quality due to its high degree of purity and absence of fermentation residues, thanks to the accurate filtration system in liquid and screening phases.

This product is intended for feeding all animal species and, in particular, the youngsters. Thanks to its control function, it facilitates the correct use in the rumen as well as in the intestine of the nutritive principles contained in food. **RUMINASE** also contributes to the conservation of the gastrointestinal tract optimal conditions, in case of any feeding imbalance or in the event of therapeutic treatments.

At rumen level ruminase provides key nutrients (B vitamins, growth factors, degradable protein, peptides and amino acids) that help to improve and stabilize microbial population, especially fiber degrading bacteria, with a positive impact on rumen fermentation, feed intake, total diet and fiber digestibility thus improving the production of acetate, precursor of de novo synthesized milk fat and limiting the risk of acidosis thanks to the reduction of lactic acid, efficiently used by fiber degrading bacteria. In pre-ruminants support the establishment of the rumen microflora due to the provision of key nutrients and act as prebiotic at gut level, promoting the development of beneficial microflora, capable to limit pathogens development (e.g. clostridia, E.coli etc.).

RUMINASE

Brewer yeast from *Saccharomyces cerevisiae*

COMPOSITION: Brewery yeast from *Saccharomyces cerevisiae*, Sucrose.

ANALYTICAL CONSTITUENTS (ON AS IS):

Humidity	6.0%
Crude protein	40.8%
Crude Fiber	1.0%

AMINOACIDS (ON AS IS)

Aspartic acid	3.61%
Glutamic acid	5.67%
Alanine	2.12%
Arginine	1.73%
Cysteine	0.78%
Phenylalanine	1.73%
Glycine	1.64%
Isoleucine	1.53%
Histidine	0.78%
Leucine	2.65%
Lysine	2.90%
Methionine	0.70%
Proline	1.59%
Serine	1.88%
Tyrosine	1.27%
Threonine	1.86%
Valine	1.76%

RECOMMENDED DOSAGE:

Dairy cows	50 - 100 g/head/day
Dairy buffaloes	40 - 70 g/head/day
Calves	15 - 30 g/head/day
Beef cattle	30 - 50 g/head/day
Sheeps and goats	5 - 10 g/head/day
Fattening lambs	5 - 10 g/head/day



25 kg aluminium bag

PREBIO

Complementary feed per calves, buffalo calves, kids and goats.
Product for preventive and continuous use rich in humic acids and rehydrating components,
particularly suitable in cold season

TECHNICAL NOTES:

PREBIO is a complementary feedstuff rich in Leonardite and natural products capable to limit diarrhea, useful to bind toxins and improve gut health. **PREBIO**, thanks to Leonardite, is characterized by a significant binding capacity against bacterial and fungal toxins thus avoiding the interaction between toxins and gut mucosa cell. The toxins bound by Leonardite are finally excreted into the faeces. **PREBIO** create a thin protective layer on the gut mucosae (small and large intestine) that inhibit the interaction

between microbial adhesins and toxins with gut cell receptors. This help to control diarrhea and improve gut health limiting the harmfulness of the etiological agents.

Micronized carrots, carob pulp, apple pulp and banana flakes are rich in pectins, which create a protective layer on gut and bind water, thus reducing inflammation on gut mucosae and water loss.

The present combination makes **PREBIO** a natural solution to promote gut health for young, growing and fattening animals.

PREBIO

Complementary feed per calves, buffalo calves, kids and goats.
Product for preventive and continuous use rich in humic acids and rehydrating components,
particularly suitable in cold season

COMPOSITION: leonardite, carrots, carob pulp, banana flakes, dextrose, apple pulp, sodium bicarbonate, sucrose.

ANALYTICAL CONSTITUENTS (ON AS IS):

Crude protein	2.8%
Crude fat	1.2%
Crude fiber	3.4%
Crude ash	29.0%
Sodium	0.9%
Ash insoluble in HCl	2.6%

ADDITIVES (PER KG):

VITAMIN, PROVITAMIN AND SUBSTANCES HAVING ANALOGUE EFFECT:

Vitamin A 3a672a	4.000 UI
Vitamin D3 3a671	900 UI
Vitamin E 3a700	375 mg
Betaine hydrochloride 3a925	2.375 mg
Beta-carotene 3a160(a)	25 mg

BINDERS:

E 551a Silicic acid, precipitated and dried	22.500 mg
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ISTRUZIONI PER L'USO:

Dairy and buffalo calves	20 - 40 g/head/day
Lambs and kids	ad libitum



20 kg bucket

PREBIO X

Complementary liquid feed for calves, lambs, kids and buffalo calves

TECHNICAL NOTES:

PREBIO X is a complementary feed with Leonardite, and a combination of plant extract (Thyme, Garlic, Oregano, Mint and Rosemary). Leonardite has a binding capacity against toxins from fungi and bacteria, making them harmless. Moreover fulvic and humic acids contained in liquid leonardite helps to improve oligominerals absorption. Plant extracts play an antiseptic, antiparasite, anti-inflammatory and analgesic action, and also improve gastric juice production.

Gellifying and astringent action of **PREBIO X** make it effective since the first days of life, thus improving gut health.



PREBIO X

Complementary liquid feed for calves, lambs, kids and buffalo calves

COMPOSITION: Natural extract of thyme (Tymus spp.), Natural extract of garlic (Allium sativum), Natural extract of oregano (Origanum L.), natural extract of mint (Mentha L.), Natural extract of rosemary (Rosmarinus o.), Leonardite, Sodium chloride, Sucrose.

ANALYTICAL CONSTITUENTS (ON AS IS):

Humidity	76.1%
Crude Protein	0.1%
Crude Fat	0.1%
Crude Fiber	0.0%
Crude ash	13.5%
Sodium	2.6%

ADDITIVES (PER KG):

CONSERVANTI:

E330 Citric acid	150 mg
E 200 Ascorbic acid	50 mg
E 282 Calcium propionate	50 mg

SUGGESTED DOSAGE:

CALVES AND BUFFALO CALVES:

- normal conditions: 10 ml/head/meal from the first colostrum meal up to 10 days of age twice a day
- digestive disorders: up to 40 ml/meal/day

KIDS AND LAMBS:

- 5 ml/head/meal from the first colostrum meal up to 10 days of age twice a day
- digestive disorders: up to 20 ml/meal/day

PREBIO X

can be used for all weaning and is recommended especially during season changes.



5 l tank

HYDRO-LITE

Complementary mineral feed for calves, kids, lambs and buffalo calves

TECHNICAL NOTES:

Diarrhea and heat stress cause a significant loss of fluids, sodium, Potassium and Chloride, leading to dehydration, metabolic acidosis and hypoglycaemia.

In this scenario, feeding oral rehydration solution rich in easy digestible carbohydrates to provide energy source and increase blood glucose, buffers to correct metabolic acidosis, sodium and osmolites to improve water absorption, potassium and chlorides is fundamental to support young animals during heat stress and diarrhea and improve a fast recovery of normal condition.

COMPOSITION: Dextrose, Sodium chloride, Sodium bicarbonate, Potassium chloride.

ANALYTICAL CONSTITUENTS (ON AS IS):

Ash insoluble in HCl _____ 12.5%
Sodium _____ 4.1%

ADDITIVI (PER KG):

BINDERS

Silicic Acid Precipitated Dried E 551 a _____ 50.000 mg

SUGGESTED DOSAGE:

add a dosing scoop (30 g) into 1 liter of warm water.



10 kg bucket



800 g bag

TECHNICAL NOTES:

GLOBIFEN is a complementary feed rich in bovine colostrum powder, with a minimum of 150.000 mg/kg of IgG. The colostrum in globifen is collected in selected farms, free from Brucellosis, EBL, Tuberculosis, Johne's Disease, BHV-1, BVD and BSE. Adequate colostrum supplementation at birth is fundamental to transfer adequate maternal immunity to the newborn, that is achieving more than 10 mg of Immuno globulin G/mL of blood at 24-48 hours after birth.

To reach this goal is necessary to supply good quality colostrum, that means a colostrum with more than 50 mg/ml of IgG. However, IgG in colostrum is highly variable between farms and within a herd of cows and can go from less than 10 to more than 100 mg IgG/ml. This huge variability is due to vaccination plan, sanitary status, dam's nutrition, age, productivity, genetic factors etc..

In this scenario, adding globifen to maternal colostrum represents a valid strategy to improve its IgG content.

GLOBIFEN

complementary feed for calves, buffalo calves, kids and lambs

COMPOSITION: Bovine colostrum (free from Brucellosis, EBL, Tuberculosis, Johne's Disease, BHV-1, BVD and BSE), anhydrous dextrose, yeast products (yeast cell wall)

ANALYTICAL CONSTITUENTS (ON AS IS):

Crude protein _____ 35.0%
Crude fat _____ 0.5%
Crude fiber _____ 0.1%
Crude ash _____ 2.8%

ADDITIVES (PER KG):

VITAMIN, PROVITAMIN AND SUBSTANCES HAVING.

ANALOGUE EFFECT:

Vitamin A 3a672a _____ 25.000 U.I.
Vitamin D3 3a671 _____ 20.000 U.I.
Vitamin E 3a700 _____ 5.000 mg

INDICAZIONI D'USO:

administer within 6 hours after birth as integration or replacement of maternal colostrum.

- Calves and buffalo calves: to improve maternal colostrum add 2 dosing scoops in the first colostrum meal; in case in which is necessary to replace maternal colostrum dissolve 200 g of globifen in 1.5 l of warm water (40°C) and feed to the newborn calf within 6 hours after birth

- kids and lambs: to replace maternal colostrum dissolve 2 dosing scoops in 150 ml of warm water (40°C) and administer to the newborn within 6 hours after birth.

Follow the instruction of Mazzoleni SpA technical service

Keep in a dry and cold place, away from sunlight.

Minimum IgG content 150.000 mg/KgBVD e BSE.



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