

# **RUMINANT PRODUCT LIST**

## **NUTRITIONAL SUPPLEMENTS**

### **&**

## **CARE PRODUCTS**



# DIAR BLOCK



**Complementary feed supplement in powder form.**

## **COMPOSITION per Kg:**

Zeolite, Oregano Essential Oil, Kaolin, Pectin, Chestnut Tannins, Psyllium, Electrolytes, Sugars.

## **SUGGESTED USE:**

DIAR BLOCK® is a powerful regulator of bowel function, in cases of diarrhea. Its use contributes to body hydration. Mode of action of DIAR BLOCK® is to create a thin layer (film) on intestinal walls, that prevents further water outflow to the intestinal tract. Zeolite not only absorbs microbial toxins, but also acts against germs themselves, due to mixture with natural essential oils. The essential oils, which contribute in reducing the microbial load, come from plants and are made naturally, without the use of chemical agents.

## **DOSAGE:**

DIAR BLOCK® *must* be administered via drinking water as complement of the feed intake at the rate of:

Calves: 4gr/Kgr BW /day for 3-5 days

**PACKSIZE:** 200 gr sachet and 1 Kgr.

For Animal Use Only.

Store dry and at room temperature.

Keep out of reach of children.

# CALCI PRO



## Complementary feed supplement in oral liquid.

**COMPOSITION:** 500gr of the product contains:

**Ingredients:** calcium chloride (11.1.6), glycerin (13.8.2), magnesium chloride (11.2.6), propylene glycol (13.11.1), lactose (8.9.1).

<b>Vitamins, provitamins, 3a</b>	
Vitamin E (3a700)	2700mg
Vitamin D3 (3a671)	2700I.U.
D-Panthenol / ProvitaminB <sub>5</sub> (3a842)	200mg
Vitamin B1 (3a820)	200mg
Vitamin B6 (3a831)	175mg
Vitamin B2 (3a826)	175mg
Vitamin B12	650µg
Provitamin A / β-carotene (3a160(a))	70µg
<b>Antioxidants, 1b</b>	
Tocopherol (1b306(i))	70mg

### SUGGESTED USE:

#### To support calcium deficiencies

- counteracts calcium deficits occurring after the calving
- reduces the cases of postnatal paralysis in the herd
- helps ketosis incidents
- provides a source of fast-absorbable calcium form

CALCI PRO® is a source of fast acting calcium chloride, therefore it increases the level of calcium in the blood rapidly after the administration. Content of vitamin D3 ensures proper absorption of this mineral from the blood. Due to the high content of glycerin CALCI PRO® prevents ketosis. Product is safe for animals and easy to use.

### DOSAGE:

Cows : 500gr directly after calving. Repeat after 24 hours, if necessary.

Sheep/Goats: 125gr/animal. Repeat after 24 hours, if necessary.

Shake well prior to administration.

**PACKSIZE:** 500 gr bottle.

For Animal Use Only.

Store dry and at room temperature.

Keep out of reach of children.

# CALCI PRO max



## Complementary feed supplement in oral liquid.

**COMPOSITION:** 200 ml of the product contains:

**Ingredients:** glycerin (13.8.2), calcium chloride (11.1.6), propylene glycol (13.11.1), magnesium chloride (11.2.6), di-ammonium phosphate (11.3.18), lactose (8.9.1).

<b>Vitamins, pro-vitamins, 3a</b>	
Vitamin B <sub>3</sub> (niacin, 3a314)	17 g
Calcium-D-pantothenate (3a841)	10g
Vitamin E (3a700)	2500mg
Vitamin D <sub>3</sub> (3a671)	2500I.U.
VitaminB <sub>1</sub> (3a820)	180mg
VitaminB <sub>6</sub> (3a831)	175mg
VitaminB <sub>2</sub> (3a826)	170mg
<b>Pro-vitamin A / <math>\beta</math>-carotene (3a160(a))</b>	6mg
VitaminB <sub>12</sub>	650 $\mu$ g
<b>Trace elements, 3b</b>	
Cobalt / Sulphate salt, heptahydrate (3b305)	100mg
<b>Antioxidants, 1b</b>	
Tocopherol (1b306(i))	67mg
<b>Flavoring compounds, 2b</b>	
Mixture of flavoring substances	1500 mg

### SUGGESTED USE:

#### Supportively to postnatal paralysis

- in cases of milk fever
- supportively to liver function
- to enhance lactation
- small dose, easy application

CALCI PRO max® contains two forms of calcium (chloride and pantothenate), what ensures prolonged increase of calcium concentration in the blood. Addition of vitamin D3, phosphorous and magnesium has a positive effect on calcium balance in the blood. Due to content of niacin CALCI PRO max® contributes to liver regeneration.

Small dose of a preparation (200 ml) makes the administration process easier.

### DOSAGE:

Cows : 200ml /animal after calving. Repeat after 24 hours, if necessary.

Sheep/Goats: 50ml /animal. Repeat after 24 hours, if necessary.

Shake well prior to administration.

**PACKSIZE:** 200 ml bottle.

For Animal Use Only.

Store dry and at room temperature.

Keep out of reach of children.

# KETOFIX



## Complementary feed supplement in oral liquid.

**COMPOSITION:** 500 gr of the product contains:

**Ingredients:** glycerin (13.8.2), propylene glycol (13.11.1), lactose (8.9.1).

<b>Vitamins, provitamins, 3a</b>	
Vitamin B <sub>3</sub> (Niacin, 3a314)	3500mg
Vitamin E (3a700)	2600mg
Vitamin D <sub>3</sub> (3a671)	2200I.U.
VitaminB <sub>12</sub>	500µg
D-Panthenol / Provitamin B <sub>5</sub> (3a842)	155mg
VitaminB <sub>1</sub> (3a820)	250mg
VitaminB <sub>6</sub> (3a831)	250mg
VitaminB <sub>2</sub> (3a826)	200mg
<b>Trace elements, 3b</b>	
Selenium/ Sodium selenite (E8)	4,2 mg
<b>Preservatives, 1a</b>	
Sodium propionate (E281)	55 g
Potassium sorbate (E202)	41 mg
Lactic acid (E270)	23 mg

### SUGGESTED USE:

To support calcium deficiencies

- **Multi component preparation to support ketosis**
- supplements energy deficits at the beginning of lactation
- limits the level of ketone bodies in the blood
- supports liver regeneration process
- improves natural immunity

KETOFIX® 3 kinds of glucogenic substances: glycerin, propylene glycol and sodium propionate, therefore it ensures fast and long-acting increase of glucose level in the blood. KETOFIX® activates energy metabolism and reduces the burning of stored fat. The product stimulates the immune system due to content of selenium and vitamin E, it also helps in fast return to high yield after ketosis.

### DOSAGE:

Cows : 300gr-500gr /animal 2 weeks before and up to 6 weeks after parturition.

Sheep/Goats: 100gr-150gr /animal 2 weeks before and up to 6 weeks after parturition.

Shake well prior to administration.

**PACKSIZE:** 500 gr bottle.

For Animal Use Only.

Store dry and at room temperature.

Keep out of reach of children

# ELECTROLYTE BOOST



**Complementary feed supplement in powder form.**

**COMPOSITION:** 1 000 gr of the product contains:

**Ingredients:** glucose (13.2.4), sodium chloride (11.4.1), potassium chloride (11.5.1), magnesium sulphate (11.2.4)

<b>Vitamins, pro-vitamins, 3a</b>	
Betaine (3a920)	1,6g
<b>Flavoring compounds, 2b</b>	
Glycine (2b17034)	2,6 g
<b>Preservatives, 1a</b>	
Citric acid (E330)	2,0 g

## SUGGESTED USE:

- To deliver to body energy and electrolytes
- To provide carbon-hydrates during transportation
- To restore osmotic and acid-alkaline balance
- To combat heat stress

ELECTROLYTE BOOST is administered dissolved in water, to animals indicating signs of dehydration, diarrhea or heat stress.

To support adult animal dehydration and heat stress, it is recommended to add ELECTROLYTE BOOST to Total Mixed Ration (TMR) at a daily dose of 200gr for cows, or 100gr for sheep and goats.

## DOSAGE:

Calves : 50gr /in 2L of water twice a day.

Lambs/Kids : 25gr/in 2L of water twice a day.

**PACKSIZE:** 100 gr sachet, 1,5 Kgr

For Animal Use Only.

Store dry and at room temperature.

Keep out of reach of children

# CALF PROTECT

## Complementary feed supplement for young ruminants.

**COMPOSITION:** 1 000 gr of the product contains:

**Ingredients:** dextrose (13.2.2), maltodextrin (13.3.6), carob pods (3.2.4), potato protein (4.8.10), rice flour (1.6.8), linseed (2.8.1), psyllium (5.31.1), whey powder (8.17.1), coconut fat (2.4.1), sodium chloride (11.4.1), sodium bicarbonate (11.4.2), inactivated yeast culture (12.1.5), inulin (4.4.9), pectin (5.27.1), potassium chloride (11.5.1).

<b>Vitamins, provitamins, 3a</b>	
Vitamin A (3a672b)	27000I.U.
Vitamin D3 (3a671)	5500 I.U.
Vitamin E (3a700)	53mg
<b>Trace elements, 3b</b>	
Zinc / Zinc sulphate monohydrate (3b605)	51mg
Manganese / Sulphate salt, monohydrate (3b503)	48mg
Copper / Sulphate salt, pentahydrate (3b405)	11mg
Selenite / Sodium selenite (3b801)	0,5mg
<b>Antioxidants, 1b</b>	
Propyl gallate (E310)	55mg

**SUGGESTED USE:** Calf Protect is administered to combat and control diarrhea to calves, lambs and kids.

### DOSAGE:

Species	Purpose	Dose	Dissolve in	Frequency
CALVES	Prevention of diarrhea	50g	In milk replacer	×1 daily
	Control of diarrhea	100g	In 2L lukewarm water	×2daily
LAMBS AND KIDS	Prevention of diarrhea	25g	In milk replacer	×1 daily
	Control of diarrhea	50g	In 1L lukewarm water	× 2daily

**PACKSIZE:** 100gr sachet, 1,5Kgr

For Animal Use Only.

Store dry and at room temperature.

Keep out of reach of children

# DIAR SKIP



## Complementary feed supplement for young ruminants.

**COMPOSITION:** 1 000gr of the product contains:

**Ingredients:** dextrose (13.2.2), pectin (5.27.1), lactose (8.9.1), sodium bicarbonate (11.4.2), sodium chloride (11.4.1), magnesium sulphate (11.2.2), dried chicory (4.4.5).

Vitamins and provitamins, 3a	
Vitamin A (3a672b)	23000 I.U.
Vitamin D3 (3a671)	4500 I.U.
Vitamin E (3a700)	160 mg
Vitamin C (E 300)	1000 mg
Antioxidants, 1b	
Propyl gallate (E310)	55 mg

### SUGGESTED USE:

- To control acute diarrheas
- To support animals with energy and electrolytes
- To provide necessary vitamins & minerals
- To avoid metabolic acidosis

### DOSAGE:

Species	Dose	Dilution	Frequency
CALVES	100 g	In 2L warm water	× 1-2daily
LAMBS	50 g	In 0,5L warm water	× 1-2daily
PIGLETS	10 g(or 0,5 g/kg body weight)	In 200ml warm water	× 1-2daily

Avoid administering more than twice, & animals should have continuous access to water, if requested.

**PACKSIZE:** 100gr sachet, 1Kgr

For Animal Use Only.

Store dry and at room temperature.

Keep out of reach of children



# BOLUS POWER PRODUCTS



## BOLUS FOR RUMINANTS

### GENERAL ASPECTS

#### INNOVATIVE FORMULA

##### GELATINECAPSULE

- Fast dissolving
- precise dosing
- protective form
- no bitter taste
- no risk of lung flooding
- easy administration

##### RICH COMPOSITION

Minerals of high bioavailability  
Vitamin complex  
Natural ingredients  
Herbal blend to increase effectiveness.  
Yeast and other substances to regulate microflora.

##### *FAST RELEASE*

- I. The capsule disintegrates in 3 minutes, in vitro tests.*
- II. In Cows disintegration was observed in 5 minutes, in vivo.*

## CALCI bolus

## Mineral complementary compound feed for Cows, Camels, Horses

### Properties:

Calcium bolus is a product which minimizes the number of decalcifications in cows. Bolus dissolves in the rumen and provides proper concentration of calcium, phosphorus, magnesium and vitamin D3..

### Composition:

Sucrose, calcium lactate, monocalcium phosphate, pork gelatine, H<sub>2</sub>O magnesium sulphate, propylene glycol, colloidal silica, polyoxymethylene castor oil, vitamin D3

### Feed Additives per Kgr

#### *Nutritional additives:*

- Vitamin D3 (E671): 0.3 mg/kg; 12,000 IU/kg

#### *Technological additives:*

- Polyoxymethylene castor oil (E484) 1,000 mg/kg
- Colloidal silica (E551b) 1,000 mg/kg

### How to use:

Administer the boluses via special applicator.

Supportively: 1 bolus in 12-24 hours prior to delivery or 1 bolus shortly after calving.

In downer cow syndrome: 1-2 boluses in 10-12 hours after calving and 1-2 boluses in 24 hours after calving.

**Package: 12 X 60 gr**



## KETO bolus

## Mineral complementary compound feed for Cows, Camels, Horses

### Properties:

Keto Bolus is the perfect source of energy for high yielding cows to reduce the risk of ketosis development. Keto Bolus provides quickly assimilated energy, preventing the production of increased amounts of non-esterified fatty acids (NEFA). On the other hand, deficiency of these acids and deficiency of glucose lead to disturbed metabolic fat burning, which contributes to fatty liver and impairment of its function, as well as to increased amount of ketone bodies accumulated in the blood - ketosis. Bolus dissolves in the rumen and ensures that the right level of energy is obtained quickly.

### Composition:

Calcium propionate, sucrose, colloidal silica, pork gelatine, sodium chloride, vitamin E 50 %, niacin, zinc sulphate, iron sulphate, manganese sulphate, vitamin A, cobalt carbonate, copper sulphate, vitamin B12, sodium selenite, vitamin D3

### Feed Additives per Kgr

#### **Technological additives:**

- Calcium propionate (E282) 895,000 mg/kg
- Colloidal silica (E551b) 15,000 mg/kg

**Nutritional additives:** • Niacinamide (3a315) 750 mg/kg • H2O zinc sulphate (3b605) 625 mg/kg Zn: 227.8 mg/kg • H2O iron sulphate (E1) 375 mg/kg Fe: 123.5 mg/kg • H2O manganese sulphate (E5) 375 mg/kg Mn: 122 mg/kg • Cobalt(II) carbonate (3b302) 95 mg/kg • 5H2O copper sulphate (E4) 50 mg/kg Cu: 12.72 mg/kg • Sodium selenite (E8) 3 mg/kg Se: 1.37 mg/kg • Vitamin A (retinyl acetate) (3a672a):100mg/kg; 100,000 IU/kg • Vitamin D3 (E671): 0.3 mg/kg; 12,000 IU/kg • Vitamin E 50 % (DL- $\alpha$ -tocopheryl acetate 50 %) (3a700):2,500 mg/kg; 1,250 mg/kg = 1,250 IU/kg • Vitamin B12 6.25 mg/kg

### How to use:

Use an applicator.

Supportively: 1 bolus in 12-24 hours prior to delivery or 1 bolus shortly after calving.

In case of ketosis: 1-2 boluses in 10-12 hours after calving and 1-2 boluses in 24 hours after calving.

**Package: 12 X 60 gr**



## **REPRO bolus**

**Mineral complementary compound feed for Cows, Camels, Horses**

### **Properties:**

Repro bolus was created as a result of many years of research. It supplies the animals with copper, selenium, cobalt and iodine, which are essential for the immunity, reproduction, and growth of the animals. However, its most important feature is preventing Thiomolybdate Toxicity by supplying the rumen with the copper. To this day, they remain the only boluses available preventing Thiomolybdate poisoning.

### **Composition:**

Copper 13,4%, Cobalt 0,50%, Selenium 0,15% (sodium selenite), Iodine 1,00% (calcium iodate)

### **How to use:**

Apply orally via the applicator. 1-2 boluses every 6-8 months.

**Package: 12 X 60 gr**



## **EXTRAVIT gel**

**Complementary product for energy and vitamin deficiencies in calves up to 3 months old**

- Provides easily absorbable energy components
- Provides glucose precursors
- Increases the production of glucose in the liver
- Stabilizes the level of glucose in the blood
- Reduces the need for immediate burning of body fat reserves in order to meet energy demand

#### **Composition:**

Sorbitol, Cane Molasses, Glycerin, Propylene Glycol, Magnesium Chloride

#### **Additives per 1 L**

· Choline chloride 75% (3a890)	7 470 mg	· Vitamin B1 HCL (3a820)	390 mg
· Anhydrous zinc chloride (3b602)	2 919 mg	· Potassium iodide (3b201)	370 mg
· Vitamin E (3a700)	2 500 mg	· Copper chloride 2H2O (E4)	335 mg
· Manganese Chloride 4H2O (E5)	1 441 mg	· Vitamin B9 (3a316)	240 mg
· Cobalt acetate 4H2O (3b301)	1 214 mg	· Sodium Selenite (E8)	200 mg
· DL-methionine (3c301)	678 mg	· Vitamin B2	195 mg
· L-lysine monohydrochloride (3.2.3)	565 mg	· Vitamin B6 (3a831)	195 mg
· D-pantothenate calcium (3a841)	550 mg	· Vitamin D3 (E671)	5mg
· Vitamin B4 (3a315)	525 mg	· Biotin (3a880)	0.55 mg
· Vitamin A (3a672c)	400 mg		

#### **Preservatives**

- Polyoxymethylene castor oil (E484) 10 000 mg

#### **How to use:**

Orally. 30 ml for every 45 kg body weight. Use up to 3 months old. Shake well before use.



30 ml

## **IMMUNOVIT gel**

**Immunity-improving complementary feed for calves immediately after birth**

- Highly concentrated dose of antibodies
- Enhances the natural newborn's immunity

- Reduces the risk of diarrhea

**Composition:**

Corn Oil, Coconut Oil, Whey Powder, Egg Protein, Dried Bovine Colostrum

**Additives per 1 L**

Vitamin E (3a700) 1 000 mg

Vitamin A (3a672c) 260 mg

Vitamin D3 (E671) 2 mg

**Preservatives**

Colloidal silica (E551b) 100 000 mg

BHA (E320) 150 mg

**How to use:**

Calves, foals and camels: 30 ml (one syringe) onto the back of the tongue immediately after birth; ideally within the -1<sup>st</sup> 2 hours after birth.

Lambs: 5ml

Repeat the dose after 12-24 hours if necessary.



30 ml

**CALCI gel**

**Mineral complementary compound feed for Cows, Camels, Horses**

Calcium Gel is a product designed for cows to restore calcium losses. It should be administered in the perinatal period or in case of calcium deficiency in the body. Calcium Gel reduces the risk of decalcification and downer cow syndrome occurrence. The active substances contained in the product are rapidly absorbed into the bloodstream.

**Composition:**

Calcium chloride, magnesium chloride 6H<sub>2</sub>O, sucrose, xanthan gum, sodium chloride, glycerin manganese chelates, glycerin, anhydrous zinc chloride, glycerin copper chelates, brilliant blue.

**Additives per 1 Kgr**

***Nutritional additives:***

- |  |                  |
|--|------------------|
| • Glycine manganese chelate (E5) 11,360 mg/kg  | Zn: 2,499 mg/kg  |
| • Glycine copper chelate (E4) 5,420 mg/kg;     | Cu - 1,301 mg/kg |
| • Anhydrous zinc chloride (3b602) 8,970 mg/kg; | Zn - 4,300 mg/kg |

***Technological additives:***

- Xanthan gum (E414) 20,000 mg/kg

***Sensory additives:***

- Brilliant blue 100 mg/kg

**How to use:**

This product should be used preventively two days before planned calving, no later than two days after calving in the amount of 50 ml to 100 ml per cow per day. Use for 2-3 days.

**Package: 100 ML syringe**



# RUMINANT PRODUCT COMPLEMENTARY FEED ADDITIVES

## **MERRI VIT AD3E (80/40/20)**

Complementary feed, sterile product (E. Ph.) of a high quality



**Composition:** 100 ml of the product contains:

Dietary additive – vitamins: 8 000 000 I.U. vitamin A (retinyl palmitate)



4 000 000 I.U. vitamin D3 (chole-calciferol)

2 g vitamin E ( $\alpha$ -tocopherol)

Technological additives – Emulsifiers: 91,2 g

Preservatives: 2 g

### **Properties:**

The product is a long-life sterile vitamin solution belonging to the AD3E group. Vitamin A maintains the integrity of cell membranes and the lack of Vitamin A leads to keratosis epitheliums of the digestive tract, the respiratory system and the reproductive system. Moreover, vitamin A is responsible for rhodopsin synthesis; therefore its deficiency causes night-blindness (visual impairment after dusk). It protects also bone growth through osteoblasts. The action of Vitamin D3 involves regulating and improving the transformation of calcium and phosphorus in the body. The influence of Vitamin D3 on the proper dental and skeleton growth in young animals during the growing season is especially significant. In case of Vitamin E, the most important activity is the influence on the antioxidant processes in the body, which is visible in the case of cell membrane stability, mainly if they include unsaturated fatty acids. The additional role of Vitamin E in the product is the stabilization of Vitamin A.

**Indications:** Vitamin A, D3 and E deficiency in young animals.

### **Recommendations for use and Dosage:**

The product is administered in drinking water for all animal species in dosage:

- Cattle – 10-20 ml of the product daily per animal;
- Calves, fattening pigs, covered sows and farrowing sows – 5-10 ml of the product daily per animal;
- Piglets, dogs, sheep, goats – 1-2ml of the product daily per animal;
- Poultry – 2,5 ml per 10 liter of drinking water (100 ml of the mixture per 400 liter of water).

**Special precautions for storage and transportation:** Store below 25°C in a dry and dark place.

### **Special Precautions For the Disposal of Unused Product or Waste Materials Derived from the Use of Such Products:**

Do not empty into drains or with the household waste. The current legal regulations should be observed. This will help protect the environment.

**Expiry date and batch number:** Manufacture date is batch number as well; Batch number and expiry date are on package.



## **MERRI VIT B COMPLEX**

Premix, sterile product (E. Ph.) of a high quality

### **Composition:**

100 ml of the product contains:

Dietary additive – vitamins:

Quantity	EUR-Lex	Vitamin
10g of vitamin	3a820	B1 (thiamine HCl)
1g of vitamin	3a	B2 (riboflavin -Na)
1g of vitamin	3a831	B6 (pyridoxine hydrochloride)
20mg of vitamin	3a	B12 (cyanocobalamin)
25g of vitamin	3a315	PP (nicotinamid)
2,5g		(ATP) Adenosin tri-phosphate

Carrier – water (moisture content – 60,48g).

**Properties:** The product is a long-life sterile solution of ATP and vitamins from the group B.

ATP is a biological fuel for the organism. Vitamins from the group B contained in the product play a very important role in the metabolism of carbohydrates, fats and proteins. They are also necessary for the proper functioning of the nervous system, muscle and epithelial tissues.

**Indications:** Fatigue, convalescence, weak growth in young animals, intolerance of transport, travel disturbances, poor health in racing horses and leaping horses.

**Recommendations for use and Dosage:** The product is administered in drinking water for all animal species in dosage:

**cattle, horses** – 20-30 ml of the product daily per animal for 4-5 days; during transport: apply 20 ml 4 hours before transport; **calves, foals**– 4-10 ml of the product daily per animal every 24 hours; **fattening pigs, cowered sows and farrowing sows**- 5-10 ml of the product daily per animal every 24-48 hours; **piglets, dogs, sheep, goats** – 5 ml of the product daily per animal; poultry – 2,5 ml per 10 liter of drinking water (100 ml of the mixture per 400 liter of water).

**NOTE:** Do not apply more than four times with 24-hour intervals.

**Special precautions for storage and transportation:** Store below 25°C in a dry and dark place. Protect from the light.

**Special Precautions for the Disposal of Unused Product or Waste Materials Derived from the Use of Such Products:** Do not empty into drains or with the household waste. The current legal regulations should be observed. This will help protect the environment.

**Expiry date and batch number:** Manufacture date is batch number as well; Batch number and expiry date are on package.



## MERRI VIT B12

### Premix

**Composition:** 1 ml of the product contains: (3a) cyanocobalamin (vitamin B12) 500µg, water (moisture content).

**Type of packaging:** PET bottle with cap of 100 ml.

**Properties and action:** The product is a long-life sterile solution of vitamin B12. The vitamin contained in the product play a very important role in the metabolism of carbohydrates, fats and proteins. They are also necessary for the proper functioning of the nervous system, muscle and epithelial tissues. Deficiencies of vitamin B12 in animals give the original symptoms arising mainly as a result of the disturbances in the synthesis of nucleic acids and porphyrins, in the transformation of propionic acid in glucose and metabolism of lipids, proteins and cell membranes. Disorders in nucleic acid synthesis and porphyrin lead to anemia, increase white blood cells of multi-piece nucleus and enlarge lymphocytes with leukopenia. The disorder of nucleic acid synthesis reflects clearly the reduction or disappearance of the proliferation of epithelial cells of the gastrointestinal tract, which leads to the present alternating constipation and diarrhea problems. The participation of vitamin B12 in the transformation of propionic acid in ruminants is very important. Disorder of alternation of propionic acid into glucose results decreased milk production, decreased weight increments, and emaciation. In cattle, this condition can occur as a result of fore stomach microflora disorders (diet change, use of antibiotic ionophores) and high production at the same time. In addition, the protective cobalamin performs the function of the liver protection; it stimulates pancreatic and pituitary secretion.

**Indications:** The preparation shall be applied in the case of vitamins B12 deficiency, especially in the period of intense growth and development and during the treatment with antibiotics.

**Recommendations for use and Dosage:** The product is administered in drinking water for all animal species in dosage: **cattle, horses** – 2-5 ml of the product daily per animal; calves, foals– 1-3 ml of the product daily per animal; **fattening pigs, cowered sows and farrowing sows, piglets, dogs, sheep, goats** – 0,5-1,5 ml of the product daily per animal; poultry – 2,5 ml per 10 liter of drinking water (100 ml of the mixture per 400 liter of water).

**Recommendations for the proper use:** SHAKE BEFORE USE. Read the label to ensure proper use of the product.

## **MERRI VIT E+ SELENIUM**



**Complementary feed, sterile product (E. Ph.) of a high quality**

**Composition:** 100 ml of the product contains:

Dietary additive – vitamins: 5,00g of vitamin E ( $\alpha$ - tocopherol)  
– trace elements: 0,02g selenium  
Technological additives – emulsifiers: 30,50g  
Carrier – water (moisture content – 64,45g).

**Properties:** The product is a long-life sterile solution of vitamin E and selenium. The main activity of vitamin E is its influence on antioxidant processes in the organism. It concerns

especially the cell membranes stability in the case when they contain unsaturated fatty acids.

**Indications:** This preparation shall be administered especially in young animals in case of deficiency of vitamin E and selenium, which cause dystrophy of skeletal muscle, myocardial degeneration and liver necrosis in piglets.

**Recommendations for use and Dosage:** The product is administered in drinking water for all animal species in dosage:

- Horses – 10 ml of the product daily per animal;
- Lambs, calves, foals, piglets – 2ml/10kg of body weight;
- Pigs, sheep– 1ml/10kg of body weight;
- Poultry – 2,5 ml per 10 liter of drinking water (100 ml of the mixture per 400 liter of water).

**Special precautions for storage and transportation:** Store below 25°C in a dry and dark place. Protect from the light.

**Special Precautions for the Disposal of Unused Product or Waste Materials Derived from the Use of Such Products:**

Do not empty into drains or with the household waste. The current legal regulations should be observed. This will help protect the environment.

**Expiry date and batch number:** Manufacture date is batch number as well; Batch number and expiry date are on package.

## MERRI VIT MINERAL



Complementary feed for cattle, horses, pigs and sheep

**Composition:** 100 ml of the product contains:

**Feed materials:** Calcium Gluconate (11.1.13), magnesium hypophosphite (11.3.21), magnesium chloride (11.2.6), potassium chloride (11.5.1), boric acid.

**Feed additives:** dietary supplements - trace elements (3b): 1.0 g potassium iodide E2, 0.7 mg zinc E6 (in the form of zinc chloride), 30.9 mg iron E1 (in the form of iron sulphate), 4.4 mg cobalt acetate (3b301); technological additives - preservatives (1a): 1 butanol.

**Analytical components:**

Sodium	- 0 g,
Magnesium	- 1.3 g,
Phosphorus	- 1.6 g,
Calcium	- 1.9 g,
Potassium	- 0.3g,
Chlorine	- 0.1 g,
Lysine	- 0 g,
Methionine	- 0 g,
Crude protein	- 0%,
Crude oils and fats	- 0%,
Crude ash	- 0%,
crude fiber	- 0%.

Media - water (moisture content: 78.3 g).

**Properties and action:** The preparation is a balanced salt solution, recommended for use in horses, cattle, sheep and pigs in disease states, resulting from deficiency of phosphorus, calcium, potassium, magnesium and trace elements: iodine, zinc and cobalt.

**Indications:** The preparation is used adjunctively in horses, cattle, sheep and pigs in disease states, resulting from the deficiency of phosphorus, calcium, potassium, magnesium, sodium and trace elements: iodine, zinc and cobalt. It activates enzymes, hormones, vitamins, cellular metabolism, regulates ion composition and osmotic pressure. The product acts as an auxiliary in disorders in the development and functioning of bone tissue, resulting from mineral deficiencies.

**Dosage and route of administration:** The preparation is used in drinking water in the amount of 1 ml / 5-10 kg bw:

-Cattle, horses: 10 20 ml / animal;

-Calves, sheep, pigs: 5-10 ml / animal.

Administer the solution at room temperature slowly, not in one place above 5 ml.

## MERRI VIT MULTIVITAMIN

### STERIL VIT MULTIVITAMIN

**Complementary feed, sterile preparation (E. Ph.) of increased quality**

**Composition:** 100 ml of the product contains:

Feed materials: propylene glycol (13.11.1), glycerin (13.8.2).

**Feed additives: nutritional additives – vitamins (3a):** 1.53 Million IU of vitamin A (retinol palmitate, 3a672b), 3.00 mg of vitamin D3 (cholecalciferol, 3a671), 0.40 g of vitamin E (α-tocopherol, 3a700), 0.53 g of vitamin B1 (thiamine HCl, 3a820), 0.40 g of vitamin B2 (riboflavin-Na), 2.50 g of provitamin B5 (D-panthenol, 3a842), 1.00 g of vitamin B6 (pyridoxine HCl, 3a831), 1.15 mg of vitamin B12 (cyanocobalamin), 1.15 g of vitamin PP (nicotinic acid iside, 3a315); sensory additives – flavoring substances

(2b): 1,20 g 2b02004; technological additives – preservatives (1a): 0,05 g; emulsifiers (1c): 12,00 g.

**Analytical constituents:** sodium – 0 g, magnesium – 0 g, phosphorus – 0 g, calcium – 0 g, lysine – 0 g, methionine – 0 g, crude protein – 0%, crude fiber – 0%, crude oils and fats – 0%, crude ash – 0%. Carrier: water (moisture content: 74.83 g).

**Properties:** The product is a solution of vitamins. B vitamins play a very important role in the metabolism of carbohydrates, fats and proteins. They are also necessary for the proper functioning of the nervous system, epithelial tissue and muscles. Vitamin A maintains the stability of cell membranes, it is also responsible for the synthesis of rhodopsin. However, the action of vitamin D3 is to regulate and improve calcium and phosphorus metabolism in the body. Its impact on the proper development of the chykaen and dentition in young animals during the growth period is important. In the case of vitamin E, the most important action is its effect on antioxidant processes in the body.

**Indications:** The product should be used as an adjunct in the deficiency of vitamins A, D3 and E and B vitamins, in the period of intensive growth and development, in the case of disorders of the nervous system, lowering carbon indicators, disorders in plumage, cannibalism, during antibiotic treatment, as well as in various types of stressful situations.

**Use and route of administration:** The product is used in drinking water in the smallest possible amount, in all animal species:

- Horses and Cattle – 20-30 ml / day / animal;
- Calves, Foals – 5-10 ml/day/animal;
- Fattening Pigs, Piglet and lactating Sows – 5-10 ml/day/animal;
- Piglets, Dogs, Sheep, Goats – 5 ml/day/animal;
- Poultry – 10 ml/10 liters of drinking water.

**Special precautions for storage and transportation:** Store below 25°C in a dry and dark place. Protect from the light.

**Expiry date and batch number:** Manufacture date is batch number as well; Batch number and expiry date are on package.

## CAL-MAG Mineral Solution

CAL-MAG Mineral Solution, Complementary feed, Sterile Product (E.Ph.) of a high Quality

### Composition

1 mL contains:

#### *Dietary additives*

Calcium gluconate 380 mg

Magnesium chloride 60 mg

*Technological additives- preservatives* 1 mg

*Carrier- water* up to 1 ml

### Analytical Constituents

Calcium 35.3%, Magnesium 7.1%

### Recommendations For Usage/Dosage

Acute hypocalcemia conditions. As a supporting therapy for allergies, urticaria, hemorrhagic diathesis, uterine inertia. Often accompanied by other metabolic disorders, hypocalcemia frequently occurs in domesticated and farm animals. The conclusive benefits of calcium gluconate are the excellent tissue-tolerance and the inclusion of magnesium protects the animal's heart against any potential cardiotoxic effects caused by calcium.

#### **Target Species Recommended Dosage**

Cattle and Horses: 300 – 500 mL

Sheep, Goats, Foals, Calves, Swine: 30 – 50 mL

Dogs: 5 – 20 mL

Cats: 3 – 5 mL

The product may be given directly to individual animals and to groups of animals via the feed or drinking water to supplement the daily ration to suit the required needs.

#### **Product Properties/Benefits**

**CAL-MAG** is produced in specially designed germ-free clean-rooms with the highest level of quality standards.

#### **Calcium**

- Contributes to bone formation
- Provides a buffering effect (acting as an agent to neutralize excess acidity in the rumen)
- Enters into the composition of body fluids (blood)
- Enters into the composition of secretions (hormones, milk)
- Problems due to calcium deficiencies:
- Rickets (crooked limbs, enlarged joints.)
- Milk fever (parturient paresis caused by sudden drops in the blood calcium and glucose levels at the start of lactation)
- Reproductive problems

#### **Magnesium**

- Bone formation
- Cell replication
- Hormone regulation
- Nerve impulse transmission (stress) and muscle contraction
- Fertility
- Resistance to infection (immune system, vitamin E)
- Magnesium plays a vital role in the body's main functions. A regular magnesium oxide supply ensures that the forage crops will have the mineral quality required for
- the livestock's healthy diet.
- Problems due to magnesium deficiencies:
- Rickets; caused by mobilization of skeletal  $Mg^{2+}$
- Grass tetany or staggers; spasms caused by a decrease in the  $Mg^{2+}$  concentration in the blood
- Thrombosis; clot formations in the blood vessels



**Special Warnings**

Wash hands after use. It is advised to refer to the veterinarian before use.

**Shelf Life**

Shelf life as packaged for sale: 3 Years.

**Special Precautions for Storage and Transportation**

Protect from direct sunlight. Do not freeze. Store at room temperature 15-25 °C and in a dry place.

**Nature and Composition of Packaging**

Contained in 500 mL clear polypropylene bottles with a rubber stopper and screw cap.

**Special Precautions for the Disposal of Unused Product or Waste Materials****Derived from the Use of Such Products**

Do not empty into drains or with the household waste. The current legal regulations should be observed. This will help protect the environment.

**Expiry Date and Batch Number:****Other Information**

For further information about this medicine, please contact us.

## REVOLYTE

Complementary Feed-Vitamin, Mineral and Amino Acid Solution

**COMPOSITION**

1 mL solution contains:

Dietary additives

3a820	(Thiamine hydrochloride) Vitamin B1	0.10 mg
3a	(Riboflavin sodium phosphate) Vitamin B2	0.04 mg
3a831	(Pyridoxine hydrochloride) Vitamin B6	0.10 mg
3a	(Cyanocobalamin) Vitamin B12	0.05 µg
3a315	(Niacinamide) Vitamin B3	1.5 mg
3a842	(D-panthenol) Vitamin B	0.05 mg
3c321	(L-Lysine monohydrochloride) Lysine	0.03 mg



3c301	DL-methionine	0.01 mg
2b17018	L-phenylalanine	0.03 mg
3c410	L-threonine	0.02 mg
3c440	L-tryptophan	0.01 mg
3c370	L-valine	0.05 mg
3c361	L-arginine	0.025mg
2b17033	L-cysteine	0.01 mg
2b17008	L-histidine	0.01 mg
2b17010	DL-isoleucine	0.01 mg
2b17012	L-leucine	0.04 mg
2b621	Monosodium glutamate	0.04 mg
2b	Phenol	0.1 mg
11.1.6	(Calcium chloride) Calcium	0.23 mg
11.2.2	(Magnesium sulphate heptahydrate) Magnesium	0.29 mg
11.5.1	(Potassium chloride) Potassium	0.20 mg
13.2.2	Dextrose	45.46 mg

Technological additives- preservatives (1a) 1.0 mg, Carrier- water

#### **ANALYTICAL CONSTITUENTS**

Moisture content 98.7%, Sugar 4.5%, Calcium 0.008%, Magnesium 0.006%, Potassium 0.036%, Sodium 0.0007%, Crude fat 0.0%, Crude protein 0.02%, Crude fiber 0.2%, Crude ash 0.75 %, Phosphorus 0.0%, Lysine 0.002%, Methionine 0.001%

#### **DIRECTIONS FOR USE**

Recommended to be used as a supportive and preventative supplement in cases of dehydration, electrolyte imbalance and hypoproteinemia which can occur in post-operations, blood loss, diarrhea, shock and exhaustion. Can also be used during period of convalescence. Produced as sterile (E.Ph.) of a high quality.

#### **Animal Species Recommended Usage**

Cattle, Horses, Swine: 500 – 1000 mL

Calves, Sheep, Piglets: 100 – 200 mL

Cats, dogs: 50 – 100 mL

The product may be given directly to individual animals and to groups of animals via the feed or drinking water to supplement the daily ration to suit the required needs. Advised dosages are for 1-2 L of water or 1-2 kg of feed. Recommended usage for poultry is 500 mL product to 500 L of drinking water. It is advised to give to chicks before transportation for prevention of losses.

#### **GENERAL WARNINGS**

Consult your veterinarian before use.

If the additive is administered via water for drinking protein excess should be avoided

**Net volume:** 500 mL and 1000 mL

**Shelf life:** 3 years from date of production.

#### **SPECIAL PRECAUTIONS FOR STORAGE AND TRANSPORTATION**

Protect from direct sunlight. Do not freeze. Store at room temperature 15-25 °C and in a dry place. Keep out of reach of children.

**SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR  
WASTE MATERIALS DERIVED FROM THE USAGE**

Do not empty into drains or with the household waste. The current legal regulations should be observed. This will help protect the environment.

**CATOPHOS**  
Complementary Feed  
Vitamin Mineral Solution

**COMPOSITION**

1 mL solution contains:

Dietary Additives			
3a	(Cyanocobalamin)	Vitamin B <sub>12</sub>	0.05 mg
11.3.10	(Sodium dihydrogen orthophosphate)	Phosphorus	100 mg
Technological additives- preservatives (1a) 1 mg			
Feed materials -propylene glycol (13.11.1) 100 mg, dextrose (13.2.2) 0.5 mg, sodium chloride (11.4.1) 0.09 mg, Carriers- water			

**ANALYTICAL CONSTITUENTS**

Moisture content 79.75%, Sugar 10.05%, Sodium 1.6%, Potassium 0.026%, Lysine 0.0%, Methionine 0.0%, Crude fat 0.0%, Crude protein 0.0%, Crude fiber 0.0%, Crude ash 0.0%

**DIRECTIONS FOR USE**

It is advised to support in cases of acute and chronic metabolic/nutrition disorders, fertility defects, anemia, retarded growth, movement disorders, bone fractures, malnutrition, anemia and fatigue. Also recommended in stress conditions that pose high pressure on the metabolism of the animal, particularly as birth or weaning, transport, change in housing, extreme changes in temperature and in changes of feed. Produced as sterile (E.Ph.) of a high quality.

Animal Species	Recommended Dosage
Horses, cattle	10 – 25 mL
Foals, calves	5 – 12 mL
Sheep, goats, pigs	2.5 – 10 mL
Dogs	0.5 – 5 mL
Cats, rabbits, small rodents	0.5 – 2.5 mL
Feeding via single-space wet-dry feeders (piglets)	0.5 – 1.5 mL/liter
Poultry; feeding via drinking water	0.5 – 1.5 mL/liter

The product may be given directly to individual animals and to groups of animals via the feed or drinking water to supplement the daily ration to suit the required needs. Recommended usage is according to 1 L drinking water and 1 kg feed.

**GENERAL WARNINGS**

Consult your veterinarian before use.

**Net volume:** 100 mL

**Shelf life:** 3 years from date of production.

**SPECIAL PRECAUTIONS FOR STORAGE AND TRANSPORTATION**

Protect from direct sunlight. Do not freeze. Store at room temperature 15-25 °C and in a dry place. Keep out of reach of children.

**SPECIAL PRECAUTIONS FOR THE DISPOSAL OF UNUSED PRODUCT OR WASTE MATERIALS DERIVED FROM THE USAGE**

Do not empty into drains or with the household waste. The current legal regulations should be observed. This will help protect the environment.

# RUMINANT PRODUCTS

## CONSUMABLES



DIPPING CUPS



AUTOMATIC VACCINATORS

## ALU spray

Wound care preparation



**Composition:** Aluminum 2.4 g (or 4%), excipients up to 100 g.

**Action:** The micronized aluminum has protective, and antibacterial effect on wounds. It also increases the contraction of the edges of wounds, and accelerates the healing process.  
**Indications:** accidental and postoperative injuries.

**Indication:** random and postoperative wounds.

**Application:** Cleaned and disinfected wound should be covered a thin layer of aluminum from a distance of about 30 cm. Use 1-2 times a day. During the application protect eyes from the contact with spray. NOTE: Shake well before use. After use, turn the packaging upside down and briefly press the spray head so as not to allow drying up of the substance.

**Packaging:** 150 ml spray.

**Expiry date:** 2 years from the date of manufacture.

**Storage:** Keep at the temperatures of 10°C–25°C, according to the rules for packaging under pressure.



## **HOOF CARE spray**

### **Preparation for hoof care**

**Properties and action:** Measure to the spray with the possibility of topical application of a modern preparation for hoof care. The active substance - tar - pervades the dissolving agent directly into the upper layers of the epidermis, over which instantly creates a film of plastic.

This increases substantially topical preparation compared with the current, traditional technique for dressings and accelerates the healing process. Produced a protective layer protects the bear before the humidity and external influences and allows the skin to breathe.

**Composition:** Film-forming substance and the substance of coal tar (tar) in a 1:1 ratio.

**Indications:** Skin abrasions surface defects hooves, bulb rot corneum, the strut surface, the current hoof care, strengthen the hoof dressings, bandages covering.

**Dosage:** Apply by spraying from a distance of 15-20 cm in such a way that the substance has not dripping. When hoof care most appropriate to produce 2-3 layers. Each next layer is applied after a thorough, previous drying.

**NOTE:** After use, turn pack and briefly press the spray head so as not to allow drying of the substance.

**Packaging:** 150 ml spray.

**Durability:** 2 years from date of manufacture.

**Storage:** At a temperature of 10-25°C in accordance with the rules for the packages under pressure.

## PAINT SPRAY

Animal marking spray



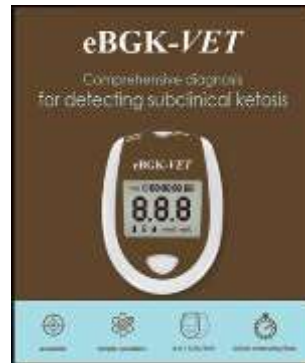
**Composition:** dyes, excipients, motive gas.

**The use:** Product to marking of animals. Stay long on the hair. It dries at once. Use from a distance 20–40 cm. Attention! Keep away from fire hazards. No smoking. Protect before from frost. Shake before use, after use turn round and press sprayer nozzle to remove rests of paint from the valve.

## Animal marking Crayons



## KETO or KETO/GLUCOSE TEST



Advanced technology, the **KetoTest** can detect ketones in the cow's blood in just **10** seconds with **highly accurate results at a cost-effective price**.

The test results of the blood ketone meter are the **most accurate** from the current condition of the lactating cow which can be monitored from an early stage (and provide treatment if necessary), whereas the urine or milk ketone strips measure the excreted urine or milk at the end stage. The early diagnosis makes it possible to prevent ketosis from happening in the cows by intervention measures and prevent economic loss.



# COW PREGNANCY TEST



## Bovine Pregnancy Rapid Test Kit

**Order Code: YRBS1001**

### Introduction

Early pregnancy detection in cattle is an important part of the production process in the pasture. Early and accurate dairy cow pregnancy detection can help farms identify open and pregnant cows as soon as possible. According to the diagnosis of early pregnancy, it can help farms to implement appropriate management measures. For pregnant cows, strengthen the feeding and management to ensure the smooth calving; for non-pregnant cows, treat promptly to induce estrus, to shorten the calving interval, which can help the pasture maximize milk production and economic benefits.

The detection of pregnancy associated protein in the peripheral blood of dairy cows has proven to be a feasible method for early pregnancy diagnosis. After a cow is pregnant, the protein concentration in its body begins to rise. Considering the difference in the protein level in different individuals, the protein is generally used as a reliable pregnancy indicator after 25-30 days of pregnancy. This product can accurately differentiate and diagnose pregnant cows and open cows on the 28th day after breeding. Besides, due to the long half-life of the protein, it is not recommended to test within 90 days after calving to avoid false positive results.

### Principle of the Procedure

This product is based on double antibody sandwich method and colloidal gold immunochromatography technology. The glass fiber of the test cassette is coated with gold-labeled antibody. On the nitrocellulose membrane, the test line (T line) is coated with the corresponding antibody, and the quality control line (C line) is coated with goat anti-mouse IgG secondary antibody. If the cow is pregnant, the target to be tested in the sample binds to the colloidal gold marker during the flow to form a complex, and binds to the antibody coated on the test line (T line), making the T line present a red band.

### Application

This product can be used for early pregnancy diagnosis of dairy cows. Through the detection of cow serum or plasma (EDTA or heparin sodium), it can identify whether the cow is pregnant after 28 days post-breeding.

### Storage and Shelf Life

Storage: Store at 4-30°C. Do not freeze. Keep away from direct sunlight, moisture and heat. Shelf Life: 12 months.

### Test Kit Components (25 Tests/kit)

1. 25 bags/kit, 1 test cassette/bag.
2. 25 PCs droppers.
3. 1 instruction manual.

### Test Procedure

**1. Sample preparation:**

Collect whole blood from cows after 28 days post-breeding, then separate serum as the test sample. Let the whole blood stand overnight at 4°C for natural precipitation or place in a centrifuge at 2000-3000rpm/min, centrifuge for 5-15 mins (either serum or plasma).

**2. Reagent preparation:**

Take out the test cassette from the packing bag, lay it on a flat and clean desktop for later use.

**3. Sample detection:**

3.1 Return the sample to room temperature (20-30°C).

3.2 Mix the sample well and pipette 3 drops (90µL) of serum or plasma (EDTA or heparinsodium) sample into the Sample well of the test cassette.

3.3 Incubate at room temperature for 20 mins.

3.4 After the incubation, interpret the result within 10 mins. The result is invalid after more than 10 mins.

### Test Interpretation

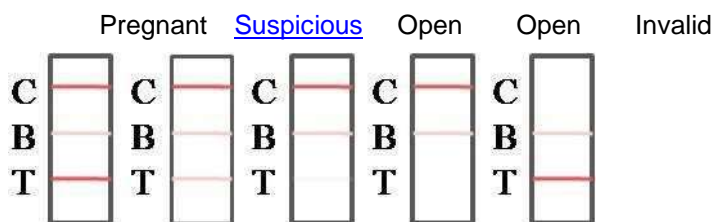
**Visual Interpretation**

1. Check whether the top Control Line (C Line) is present. If there is a normal C Line, compare the color intensity of the Test Line (T Line) and the Colorimetric Line (B Line) and interpret the test based on the following chart.

Test Line (T Line) VS Colorimetric Line (B Line)	Result Interpretation
T > B	Pregnant
T = B	<a href="#">Suspicious</a> (It is recommended to take blood after 7 days and repeat the test.)
T < B or no T	Open

2. If there is no visible C line, the test is judged as invalid. It is recommended to repeat the test.

**Interpretation diagram**



### Precautions:

In strict accordance with the instructions for use.

If the packaging bag of the test cassette is damaged, do not use it. After opening the bag, use it as soon as possible.

This product just for single test, do not re-use.

Do not use samples that have been corrupted or severely hemolyzed for testing.

The volume of sample added is 5-6 drops. Do not add more to avoid false positive results.

It is recommended that the test be carried out at least 90 days after calving.

This product cannot identify false positives caused by early embryo death.

The test cassette should be transported and stored at 4~30°C, and it is strictly prohibited to get wet.

After the test, the used test cassettes, samples and reagents should be treated in a harmless treatment.

Please use it within the validity period of the product. Mixing components of different batches of kits is prohibited.

This product is used for early pregnancy diagnosis of dairy cows, not as an animal disease diagnosis product.