

# NUTRIMIX - B GRANULAR POWDER

*(Calcium, Phosphorus, Magnesium, Sodium, Sulphur Iron (as Ferrous), Zinc, Manganese, Copper, Cobalt, Iodine, Selenium)*

## SUMMARY OF PRODUCT CHARACTERISTICS

### 1 NAME OF THE VETERINARY MEDICINAL PRODUCT

NUTRIMIX B GRANULAR POWDER

### 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each Kg Contains:

Calcium .....	220gm
Phosphorous .....	100gm
Magnesium.....	65gm
Sodium .....	50gm
Sulphur .....	45gm
Iron .....	1200mg
Zinc .....	3500mg
Manganese .....	2300mg
Copper .....	750mg
Cobalt .....	12mg
Iodine .....	55mg
Selenium .....	5mg
(Quantity as per label not given in RC)	

### 3. PHARMACEUTICAL FORM

Oral Powder.

### 4. CLINICAL INFORMATION

#### 4.1. Target species

Dairy Cattle, Buffaloes, Sheep, Goats & Fattening Animals.

#### 4.2. Indications for use specifying the target species

Prevent and trace element deficiency in Ruminants.

#### 4.3. Contraindications

Do not use in cases of hypersensitivity to any of the excipients.

#### 4.4. Special warnings for each target species

Not Reported.

#### **4.5. Special precautions for use**

Special precautions for safe use in the target species:

Not Applicable.

Special precautions to be taken by the person administering the product to animals:

People with known hypersensitivity to the active substances should avoid contact with the veterinary medicinal product.

Avoid contact with eyes, skin, and mucous membranes.

Wash hands thoroughly after handling the product.

Keep out of reach of children.

In case of accidental self-injection, seek medical advice immediately and show the package leaflet or the label.

#### **4.6. Adverse reactions (frequency and seriousness)**

None known.

Reporting of adverse events is important. It allows the continuous monitoring of the safety of the veterinary medicinal product. Reports should be sent, preferably by the veterinarian, either to the marketing authorisation holder or his local representative, or to the national competent authority via the national reporting system. Please refer to the package leaflet for the respective contact details.

#### **4.7. Use during pregnancy and lactation.**

Can be used during pregnancy, lactation.

#### **4.8. Interaction with other veterinary medicinal products and other forms of interaction**

None known.

#### **4.9. Dosage and administration route**

Dairy Cows & Buffaloes: 80-120gm per day in Feed.

Calves (45-75 kg): 5-10 g per day in feed.

Sheep & Goats: 10-15 g per day in feed.

Heifers & Fattening Animals: 50-80 g per day in feed.

Route of administration: oral, via feed.

#### **4.10. Overdose (symptoms, emergency procedures, antidotes), if necessary**

None known.

#### **4.11. Special restrictions on use and special conditions of use, including restrictions on the use of antimicrobial and antiparasitic veterinary medicinal products, in order to limit the risk of development of resistance**

Not applicable.

#### 4.12. With drawl period:

Meat: zero days.

### 5. PHARMACOLOGICAL PROPERTIES

Pharmacotherapeutic group: Minerals

#### 5.1. Pharmacodynamics properties

**Calcium:** Essential for bone and teeth formation, muscle contraction, nerve transmission, and blood clotting. Deficiency leads to rickets, osteomalacia, and milk fever.

**Phosphorus:** Works closely with calcium for bone and teeth formation, energy metabolism, and cell function. Deficiency can lead to rickets, osteomalacia, and reduced growth.

**Magnesium:** Essential for numerous enzyme reactions, muscle and nerve function, and bone formation. Deficiency can lead to muscle weakness, tremors, and cardiac arrhythmias.

**Sodium:** Maintains fluid and electrolyte balance, essential for nerve impulse transmission and muscle function. Deficiency can lead to dehydration and muscle weakness.

**Iron (as Ferrous):** Essential component of hemoglobin, crucial for oxygen transport. Deficiency leads to anemia, weakness, and reduced growth.

**Zinc:** Involved in numerous enzymatic reactions, essential for growth, immune function, and wound healing. Deficiency can lead to growth retardation, skin lesions, and impaired immune function.

**Manganese:** Involved in bone formation, carbohydrate metabolism, and antioxidant defense. Deficiency can lead to skeletal abnormalities and impaired growth.

**Copper:** Essential for iron metabolism, bone formation, and connective tissue development. Deficiency can lead to anemia, bone abnormalities, and impaired immune function.

**Cobalt:** Essential for the synthesis of vitamin B12. Deficiency leads to anemia and impaired growth.

**Iodine:** Essential for the synthesis of thyroid hormones, which regulate metabolism. Deficiency leads to goiter and hypothyroidism.

**Selenium:** Acts as an antioxidant, protects cells from oxidative damage. Deficiency can lead to muscle weakness, reproductive problems, and immune dysfunction.

**Sulphur:** It functions as a key component of amino acids like methionine and cysteine, essential for protein synthesis, tissue repair, and metabolic functions. Sulfur also contributes to antioxidant defense systems, protecting cells from oxidative damage.

#### 5.2 Pharmacokinetic information

**Calcium & Phosphorus:** Absorbed in the small intestine, regulated by vitamin D. Excreted in urine and feces.

**Zinc, Sodium & Magnesium Manganese, Selenium, Copper, and Cobalt:** Absorbed in the small intestine. Excreted in urine and feces.

**Iron (as Ferrous):** Absorbed in the small intestine, regulated by various factors. Excreted primarily in feces.

**Iodine:** Absorbed in the small intestine, regulated by various factors. Excreted primarily in Urine.

**Sulfur:** primarily absorbed as sulfate, is distributed throughout the body. It undergoes metabolic processes within the body and is primarily excreted in urine.

### 6. PHARMACEUTICAL INFORMATION

#### 6.1 Incompatibilities

Do not mix with other veterinary medicinal products

## 6.2. Shelf life

Shelf life of the veterinary medicinal product as packaged for sale: 2 years.

## 6.3. Special precautions for storage

Store below 25°C

Do not store in the refrigerator or freezer

Protect from light and moisture.

Keep out of the reach of children.

To be used as directed by the registered veterinary practitioner only.

## 6.4. Nature and composition of primary conditioning

Package size:

- Metalized Aluminum Foil pouch for 1kg
- Plastic Bags for 5kg
- Woven Bags for 20kg & 25kg.

## SPECIAL PRECAUTIONS FOR THE DISPOSAL OF WASTE MATERIALS UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS

Waste materials derived from the use of such products

Medicinal products should not be disposed of via wastewater or household waste.

Use return systems for unused veterinary medicinal products or waste materials derived from such products, in accordance with local requirements and national collection systems applicable to the veterinary medicinal product concerned.

Treated animals should be kept in shelters throughout the treatment period and their droppings should be collected and NOT used for soil fertilization.

## 7. MARKETING AUTHORISATION HOLDER

Nawan Laboratories (Pvt.) Ltd.

Plots No. 136-138, Sector-15,

Korangi Industrial Area, Karachi-74900, Pakistan.

## 8. MARKETING AUTHORISATION NUMBER

Reg. No.: 006306

## 9. DATE OF FIRST AUTHORISATION

Date of Reg.: 09-05-1983

## 10. DATE OF REVISION OF THE TEXT

17-02-2025