

# GROWDOT- UP

## Veterinary Nutritional Feed Supplement Powder for Veterinary Use

### Description

A high-quality veterinary nutritional powder supplement formulated specifically for **calves and heifers** to promote optimal skeletal development, enhance immune function, and support overall growth and vitality. The formulation combines bioavailable chelated trace minerals, essential fat-soluble vitamins, fermented yeast culture, omega-3 and omega-6 fatty acids, and natural antioxidants like Curcuma longa (turmeric).

Designed for daily feed supplementation, it compensates for common nutritional deficiencies during early growth and stress periods, aiding in improved feed efficiency and animal health.

### Specification

- **Product Form:** Free-flowing powder, light yellow to off-white
- **Category:** Nutritional Feed Supplement for Calves and Heifers
- **Target Species:** Bovine (Calves and Heifers)
- **Route of Administration:** Oral (mixed into feed)
- **Packaging Sizes:** 1 kg, 5 kg, 10 kg , 20kg
- **Appearance:** Fine, homogeneous powder with mild characteristic aroma

### Composition (Each 1 kg Contains)

- Di-Calcium Phosphate – 300.0 g
- Zinc Amino Acid Chelate – 8.0 g
- Manganese Amino Acid Chelate – 3.5 g
- Copper Amino Acid Chelate – *(To be confirmed)*
- Vitamin A – 0.5 g
- Vitamin D<sub>3</sub> – 1,000,000 International Units (I.U.)
- Vitamin E – 200,000 International Units (I.U.)
- Fermented Yeast Culture – 60.0 g
- Omega-3 and Omega-6 Fatty Acids – 25.0 g
- Curcuma longa (Turmeric) – q.s. to 1 kg

## **Excipients**

- Feed-grade carrier (e.g., maize starch or ground cereal hulls)
- Anti-caking agents (e.g., silicon dioxide)
- Stabilizers or natural aroma agents (optional, manufacturer specified)

## **Indications**

- Supports bone and skeletal development
- Enhances growth rate and feed conversion efficiency
- Boosts immune function during early life stages
- Improves coat condition and overall vitality
- Promotes gut health and nutrient absorption via yeast culture
- Provides antioxidant and anti-inflammatory benefits through turmeric

## **Dosage & Administration**

- **Route:** Oral, mix with daily feed
- **Dosage:**
  - Calves (0–6 months): 5 g per animal per day
  - Heifers (6 months to breeding age): 10 g per animal per day
- Administer continuously or during critical periods such as weaning, stress, or recovery

## **Advantages**

- Enhanced absorption due to chelated trace minerals
- Balanced fat-soluble vitamins support immunity and bone health
- Natural digestive support with fermented yeast and turmeric
- Essential fatty acids improve coat health and reduce inflammation
- Easy-to-use powder form, adaptable to feeding routines

## **Adverse Effects**

- Safe when used as recommended
- Overdose risks: mineral toxicity (zinc, copper), vitamin D<sub>3</sub> hypercalcemia, vitamin A excess
- Rare allergic reactions to yeast or turmeric components possible

## Precautions

- Follow recommended dosage strictly
- Store feed and supplement in dry, cool conditions
- Avoid concurrent use with other mineral/vitamin supplements unless advised by a veterinarian
- Keep out of reach of children and animals other than intended species

## Withdrawal Period

- **No withdrawal period required**
- Composed solely of nutritional feed ingredients, safe for animals producing milk or meat under normal regulatory guidelines

## Storage & Handling

- Store below 25 °C in a dry, well-ventilated area
- Seal container tightly after each use
- Protect from moisture, heat, and sunlight
- Use before expiration date indicated

## HS / HSN Codes

- **HS Code (Harmonized System):** 2309.90.90
- **HSN Code (India):** 2309 – Preparations of a kind used in animal nutrition

*Note: Always verify with local customs or regulatory authorities as codes may vary by jurisdiction.*

## Schedule

- Classified as a **veterinary nutritional feed supplement**
- Not a pharmaceutical drug; regulated under animal feed safety and quality standards
- Complies with Good Manufacturing Practices (GMP) and local regulatory registration

## **? Frequently Asked Questions (FAQs)**

### **Q1: Why does this supplement use amino acid chelates instead of inorganic mineral salts?**

Amino acid chelates improve mineral absorption by protecting minerals from antagonistic interactions in the gut. This enhances bioavailability and reduces mineral losses, making supplementation more efficient.

### **Q2: Can this supplement be safely given alongside antibiotics or dewormers?**

Yes, but to avoid reduced drug efficacy, it is recommended to separate administration times by 2–3 hours. Always consult a veterinarian for combined treatments to prevent interactions.

### **Q3: Is this supplement suitable for continuous long-term use in calves and heifers?**

Yes, when used as directed, it safely supports growth and immunity. Avoid exceeding the recommended dosage or overlapping with other mineral supplements to prevent toxicity.

### **Q4: What benefits does *Curcuma longa* (Turmeric) provide in this formulation?**

*Curcuma longa* offers natural antioxidant and anti-inflammatory effects, supporting gut health and immune function, especially during stress or disease challenges.

### **Q5: Is a withdrawal period necessary before milk or meat consumption after using this product?**

No withdrawal period is required since this product consists solely of nutritional ingredients and does not contain pharmacologically active drugs.

