

# IVPLEX

## (High Potency Vitamin B-Complex Injection For Veterinary Use)

### Description

High Potency Vitamin B Complex Injection is a sterile veterinary injectable formulation containing a combination of essential B vitamins. This complex supports metabolic processes, enhances appetite, improves nervous system functions, and promotes growth and recovery in animals. It typically includes Thiamine (**B1**), Riboflavin (**B2**), Pyridoxine (**B6**), Niacinamide (**B3**), Cyanocobalamin (**B12**), and sometimes additional B vitamins like Pantothenic acid (B5) and Folic acid (B9).

### Specification

- Appearance: Clear to pale yellow sterile injectable solution
- Active Vitamin Content (typical per mL):
  - Thiamine hydrochloride (Vitamin B1): 50 mg
  - Riboflavin sodium phosphate (Vitamin B2): 10 mg
  - Pyridoxine hydrochloride (Vitamin B6): 50 mg
  - Niacinamide (Vitamin B3): 50 mg
  - Cyanocobalamin (Vitamin B12): 0.5 mg (500 mcg)
  - Other B vitamins may be present based on formulation
- pH: 4.5 – 7.0
- Sterility: Must meet pharmacopeial sterile injection standards
- Preservative: Usually contains preservatives like methyl or propyl parabens
- Shelf life: Typically, 2 years under recommended storage

### Composition

A typical 1 mL contains:

- Vitamin B1 (Thiamine hydrochloride): 50 mg
- Vitamin B2 (Riboflavin sodium phosphate): 10 mg
- Vitamin B6 (Pyridoxine hydrochloride): 50 mg
- Vitamin B3 (Niacinamide): 50 mg
- Vitamin B12 (Cyanocobalamin): 0.5 mg (500 mcg)

## **Excipients**

- Water for injection
- Methyl/propyl parabens (preservative)
- Sodium chloride (for isotonicity)
- Sodium hydroxide/Hydrochloric acid (for pH adjustment)

## **Category**

Veterinary metabolic stimulant, vitamin supplement, nutritional tonic.

## **Indications**

- Treatment and prevention of Vitamin B complex deficiencies in animals
- Support in metabolic disorders, poor appetite, and growth retardation
- Recovery from infections, toxicosis, and chronic diseases
- Nervous system disorders such as polyneuritis or paralysis
- Improves reproductive performance and general vitality

## **Dosage**

- Cattle, horses, buffaloes: 5–10 mL per animal
- Calves, foals: 2–5 mL
- Sheep, goats: 1–3 mL
- Pigs: 2–5 mL
- Dogs, cats: 0.5–2 mL
- Poultry: 0.5–3 mL per litre of drinking water for 3–5 days

Dosage may be repeated daily or as advised by a veterinarian.

## **Route of Administration**

- Intramuscular (IM)
- Subcutaneous (SC)
- Intravenous (IV) (use cautiously)

## **Product Form**

- Sterile injectable solution
- Available in 30 mL, 100 mL vials

## **Usage**

Used widely in veterinary practice to correct vitamin B deficiencies, enhance metabolism, and aid in recovery from illness or stress in various animals including livestock, pets, and poultry.

## **Advantages**

- Broad spectrum B-vitamin support in one injection
- Rapid absorption and metabolic action
- Enhances appetite, energy, and nervous system health
- Safe with minimal side effects when used properly
- Convenient dosing across species

## **Adverse Effects**

- Rare allergic reactions at injection site (swelling, redness)
- Mild transient gastrointestinal upset possible
- Overdose may cause nervousness or hyperexcitability

## **Schedule**

Non-controlled veterinary pharmaceutical; available by prescription or OTC depending on region.

## **Precautions**

- Use aseptic technique
- Avoid overdose and repeated high doses without veterinary supervision
- Monitor for hypersensitivity reactions
- Use cautiously in pregnant animals, only under veterinary advice

## **Withdrawal Period**

- No withdrawal period generally required for meat or milk

## **Storage**

- Store at 15–30°C
- Protect from light
- Do not freeze

## **Handling**

- Use sterile needles and syringes
- Limit vial punctures per manufacturer recommendations
- Dispose of unused product and containers as per local regulations

## **HS and HSN Codes**

- **HS Code:** 3004909099
- **HSN Code:** 3004 (Medicaments consisting of mixed or unmixed products for therapeutic or prophylactic uses)

## **Special Instructions**

- Do not mix with other drugs unless compatibility is confirmed
- Avoid direct injection into blood vessels unless indicated
- Use veterinary supervision for dosing in sensitive species

## **Human and Veterinary Application**

- For veterinary use only
- Not intended for human consumption or treatment

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

### **Q1: What is Vitamin B Complex Injection?**

A combination of essential B vitamins given by injection to correct deficiencies and support metabolism in animals.

### **Q2: Can this be given to all animals?**

Yes, it is safe for a wide range of domestic and farm animals under veterinary guidance.

### **Q3: What are the common side effects?**

Rarely injection site reactions or mild gastrointestinal upset.

### **Q4: How often can the injection be given?**

Typically once daily or as prescribed by the veterinarian.

### **Q5: Is withdrawal period needed before slaughter or milk use?**

Generally, no withdrawal period is required.

### **Q6: Can it be given with other medications?**

Only if compatibility is confirmed to avoid interactions.

### **Q7: How should it be stored?**

In a cool, dark place at 15–30°C, avoiding freezing and sunlight.

