

Brand Name: MITRO GOLD INJECTION

Composition: Methylcobalamin Pyridoxine Hydrochloride & Niacinamide injection.

Dosage Form: Injection.

Category: Nutritional Supplement / Neurotropic Vitamins.

Packaging Type: Blister Pack with Dispo Pack

PACKAGING: 1 ampule of 2 ml.

Brief Product Introduction:

MITRO GOLD INJECTION is a scientifically balanced neurotropic formulation developed by **AstraEureka Pharmaceutical**, a reputed **manufacturer of quality injectable compositions**. It combines essential B-complex vitamins with neuro-regenerative properties to support the treatment of various neuropathic disorders. Designed for intramuscular use, this product plays a crucial role in nerve repair, energy metabolism, and cellular recovery.

Composition:

Each 2 ml contains:

- Methylcobalamin IP.....1500 mcg
- Pyridoxine Hydrochloride IP.....100 mg
- Niacinamide IP – 100 mg
- Benzyl Alcohol IP – 2% v/v
- Water for Injection IP – Q.S.

Key Ingredients:

1. **Methylcobalamin (Vitamin B12):** Active form of B12, essential for myelin sheath formation, nerve function, and DNA synthesis.
2. **Pyridoxine Hydrochloride (Vitamin B6):** Supports neurotransmitter synthesis, protein metabolism, and brain health.
3. **Niacinamide (Vitamin B3):** Promotes cellular energy production and helps reduce inflammation.
4. **Benzyl Alcohol:** Used as a preservative to maintain sterility.
5. **Water for Injection:** Serves as a solvent to deliver the active components.

Key Benefits:

1. Promotes nerve regeneration and repair
2. Enhances neurotransmitter function
3. Supports energy production at the cellular level
4. Aids in managing peripheral and diabetic neuropathy
5. Reduces symptoms such as numbness, tingling, and fatigue
6. Improves overall neurological and metabolic health

Indications:

1. Peripheral Neuropathy
2. Diabetic Neuropathy
3. Alcoholic Neuropathy
4. B-complex Vitamin Deficiency
5. Sciatica and neuralgia
6. Adjunctive therapy in neurological and metabolic disorders
7. Supportive treatment in general fatigue and weakness

Directions for Use:

1. Administer under the supervision of a registered medical practitioner
2. Intended for intramuscular (IM) injection only
3. Do not mix with other injections in the same syringe
4. Follow aseptic techniques during administration

Dosage and Administration:

- **Recommended Dose:** As directed by the physician
- Usual dosage: One ampule (2 ml) once a week or as prescribed
- Route of Administration: Intramuscular injection

Safety Information:

1. Not to be used in patients with known hypersensitivity to any ingredient
2. Use with caution in patients with liver or kidney disorders
3. Not recommended in children unless prescribed
4. Avoid use during pregnancy and lactation unless absolutely necessary
5. Monitor patients for signs of hypersensitivity or adverse reactions
6. For single use only – discard unused portion

Mechanism of Action:

- **Methylcobalamin:** Participates in the methylation of homocysteine to methionine, essential for nerve cell repair and myelin sheath integrity.
- **Pyridoxine (Vitamin B6):** Acts as a coenzyme in amino acid metabolism and synthesis of neurotransmitters like serotonin and dopamine.
- **Niacinamide (Vitamin B3):** Functions as a precursor to NAD/NADP, essential in oxidative-reduction reactions that supply energy to cells.
- The synergistic action of these vitamins enhances nerve impulse conduction, reduces oxidative damage, and supports tissue repair.

Contraindications:

1. Hypersensitivity to any of the active ingredients or excipients
2. Severe hepatic impairment
3. Active peptic ulcer (Niacinamide caution)
4. Leber's disease (Vitamin B12 caution)

Side Effects:

1. Injection site pain, redness, or swelling
2. Nausea or mild gastrointestinal upset
3. Allergic reactions such as rash, itching, or difficulty breathing
4. Dizziness or flushing (rare and usually transient)
5. In very rare cases, high doses may cause neuropathy

Important Notice:

- For therapeutic use only under medical supervision
- Not a replacement for a balanced diet
- This formulation is not intended to diagnose, treat, cure, or prevent any disease
- Keep out of reach of children
- Ensure proper disposal of used ampules

Storage Conditions:

1. Store below 25°C in a dry, cool place
2. Protect from direct sunlight and moisture
3. Do not freeze
4. Keep ampule in outer carton until use

Packing Information:

- Each unit contains **1 Ampule of 2 ml.**
- Packed Blister Pack with Dispo Pack.