

Brand Name: MITRO C 1 INJECTIONS

Composition: Vitamin c injection IP & Methycobalamine folic acid & Nicotinamide injection

Dosage Form: injection

Category: nutraceutical / nutritional supplement

Packaging Type: ampule

PACKAGING: combipack 2 ampules (part a & part b)

Brief Product Introduction:

MITRO C 1 is a dual ampule injectable nutritional supplement developed by **AstraEureka Pharmaceutical**, a trusted **manufacturer of high-quality injectable compositions**. It combines potent antioxidants and essential vitamins to support nerve health, boost immunity, and improve overall metabolic function. The product is designed for therapeutic supplementation in patients with vitamin deficiencies, especially related to neurological and oxidative stress conditions.

Composition:

PART - A (Each 1.5 ml contains):

- Vitamin C IP.....150 mg
- Water for Injection IP.....q.s.

PART - B (Each 1 ml contains):

- Methylcobalamin IP.....2500 mcg
- Folic Acid IP.....0.7 mg
- Nicotinamide IP.....12 mg
- Water for Injection IP.....q.s.

Key Ingredients:

1. Vitamin C (Ascorbic Acid): A powerful antioxidant that helps neutralize free radicals and supports immune function.

2. Methylcobalamin (Vitamin B12): The neurologically active form of B12 essential for nerve regeneration and red blood cell production.

3. Folic Acid: Important for DNA synthesis, cell repair, and proper brain function.

4. Nicotinamide (Vitamin B3): Supports energy metabolism and aids in DNA repair.

Key Benefits:

1. Enhances immune function
2. Supports nerve regeneration and neurological function
3. Helps in red blood cell formation
4. Improves energy metabolism
5. Reduces oxidative stress and supports cellular health

6. Beneficial in megaloblastic anemia and neuropathies

Indications:

1. Peripheral Neuropathy
2. Vitamin B12 and Folic Acid deficiency
3. Megaloblastic Anemia
4. Fatigue and Weakness
5. Adjunct in Diabetic Neuropathy
6. General Nutritional Support

Directions for Use:

1. Use only under the supervision of a registered medical practitioner.
2. Part A and Part B should be administered separately via intramuscular route.
3. Both ampules are to be used together as part of the same treatment regimen.

Dosage and Administration:

- **Recommended Dose:** As advised by the physician.
- Commonly, one combipack (Part A + Part B) is administered weekly or as prescribed.
- Route: Intramuscular Injection (IM)

Safety Information:

1. For intramuscular use only.
2. Do not exceed the recommended dose.
3. Not for pediatric use unless prescribed.
4. Discard unused portion after opening.
5. Monitor renal and hepatic function during prolonged use.
6. Keep out of reach of children.

Mechanism of Action:

- **Vitamin C:** Acts as an antioxidant and enhances iron absorption. It contributes to collagen synthesis and wound healing.
- **Methylcobalamin:** Serves as a coenzyme in the synthesis of methionine from homocysteine; vital for maintaining the myelin sheath of nerves.
- **Folic Acid:** Participates in the synthesis of nucleic acids and red blood cells; essential for CNS development and repair.
- **Nicotinamide:** A precursor of NAD⁺/NADP⁺, it plays a role in energy production and cellular repair.

Contraindications:

1. Known hypersensitivity to any component of the formulation
2. Patients with Leber's disease (hereditary optic neuropathy)
3. Severe renal impairment (with caution)
4. Patients with hypervitaminosis

Side Effects:

1. Mild injection site pain or redness
2. Allergic reactions (rash, itching, swelling)
3. Gastrointestinal discomfort (rare)
4. Dizziness or flushing (transient)

Important Notice:

- This product is intended for use only under medical advice.
- Not a substitute for a varied diet.
- Store away from direct sunlight and moisture.
- Ensure both ampules (Part A and B) are used in combination for intended therapeutic benefit.

Storage Conditions:

1. Store below 25°C in a cool, dry place.
2. Do not freeze.
3. Protect from light.

Packing Information:

- **Combipack of 2 Ampules (Part A - 1.5 ml, Part B - 1 ml)**
- Available in cartons of multiple combipacks as per supply requirement