

Brand Name: MEKAFOLATE-MD

Composition: Methylcobalamin 1500mcg+ Folic Acid 5mg+ Pyridoxine Hydrochloride 3mg & Vitamin D3 1000IU.

Dosage Form: Mouth Dissolving Tablet

Category: Nutritional / Neurovitamin Supplement

Packaging Type: Alu-Alu+ Mono Pack

Packaging: 10X1X10

Brief Product Introduction:

MEKAFOLATE-MD is a scientifically formulated mouth dissolving tablet manufactured by **AstraEureka Pharmaceutical**, a trusted **manufacturer of composition** that includes key neurovitamins such as Methylcobalamin, Folic Acid, Pyridoxine Hydrochloride, and Vitamin D3. Designed for rapid absorption and convenience, this combination provides essential nutrients that support nerve health, brain function, cardiovascular health, and bone strength. It is especially useful in conditions like peripheral neuropathy, vitamin deficiencies, and during pregnancy.

Composition:

Each uncoated mouth dissolving tablet contains:

- Methylcobalamin IP.....1500 mcg
- Folic Acid IP.....5 mg
- Pyridoxine Hydrochloride IP.....3 mg
- Vitamin D3 IP.....1000 I.U.
- Excipients.....q.s.

Key Ingredients:

1. **Methylcobalamin (Vitamin B12) – 1500 mcg**
 - Active coenzyme form of B12
 - Essential for myelin sheath formation and nerve repair
 - Aids in red blood cell production and homocysteine metabolism
2. **Folic Acid (Vitamin B9) – 5 mg**
 - Required for DNA synthesis and cell division
 - Crucial during pregnancy for fetal neural tube development
 - Helps in reducing homocysteine levels
3. **Pyridoxine Hydrochloride (Vitamin B6) – 3 mg**
 - Plays a key role in neurotransmitter synthesis
 - Supports immune function and cognitive development
 - Helps manage symptoms of PMS and mood disorders
4. **Vitamin D3 – 1000 IU**
 - Promotes calcium absorption and bone health
 - Supports immune system function
 - Modulates neuromuscular and cellular processes

Key Benefits:

1. Enhances nerve regeneration and cognitive function
2. Helps manage and prevent megaloblastic anemia
3. Supports cardiovascular health by lowering homocysteine levels
4. Aids fetal brain and spinal cord development during pregnancy
5. Boosts immunity and bone mineralization
6. Fast-acting mouth dissolving tablet ensures better patient compliance

Indications:

1. Vitamin B12, B6, D3, and folic acid deficiency
2. Peripheral and diabetic neuropathy
3. Neurological disorders
4. Pregnancy and lactation support
5. Fatigue and weakness due to vitamin deficiency
6. Osteopenia and bone-related disorders
7. Cardiovascular risk reduction via homocysteine control

Directions for Use:

1. Place the tablet on the tongue
2. Allow it to dissolve completely without chewing or swallowing whole
3. No water is required for administration
4. Best taken after meals or as directed by a healthcare professional

Dosage and Administration:

1. **Adults:** One tablet daily or as prescribed by the physician
2. **Pregnant/Lactating women:** As advised by a healthcare provider
3. **Geriatric patients:** One tablet daily under medical supervision
4. Do not exceed the recommended dosage

Safety Information:

1. Use under medical supervision, especially in pregnancy or chronic illness
2. Not suitable for pediatric use unless prescribed
3. Avoid use in patients with known hypersensitivity to any ingredient
4. Inform your doctor if you are taking anticoagulants or anticonvulsants
5. Keep out of reach of children
6. Do not use if the tablet is broken or expired

Mechanism of Action:

- **Methylcobalamin** acts as a coenzyme in the conversion of homocysteine to methionine, critical for DNA synthesis and myelin sheath formation. It plays a key role in maintaining healthy nerve cells and red blood cells.
- **Folic Acid** is required for the synthesis of nucleic acids and amino acids. It works synergistically with B12 to reduce elevated homocysteine levels, thereby reducing cardiovascular risks.
- **Pyridoxine** functions as a coenzyme in numerous metabolic pathways, especially in the synthesis of neurotransmitters like serotonin, dopamine, and GABA, thereby improving mental function and nerve health.
- **Vitamin D3** binds to vitamin D receptors, facilitating calcium and phosphate absorption in the intestine, supporting bone health and modulating the immune response.

Contraindications:

1. Hypersensitivity to any of the active ingredients
2. Hypervitaminosis D
3. Severe renal impairment (use with caution)
4. Not advised in patients with high calcium levels

Side Effects:

1. Rare: Nausea, bloating, mild GI upset
2. Very rare: Allergic skin reactions such as rash or itching
3. Excess Vitamin D may lead to hypercalcemia with symptoms like weakness, headache, or confusion
4. Long-term overdose may cause neuropathy (from B6)

Important Notice:

- This product is a **nutraceutical supplement**, not intended to diagnose, treat, cure, or prevent any disease
- Should be taken as part of a healthy diet and lifestyle
- Consult a healthcare provider before initiating if you are on other medications or pregnant

Storage Conditions:

1. Store in a cool, dry place below 25°C.
2. Protect from moisture and direct sunlight.
3. Do not freeze or refrigerate.
4. Keep the strip in original packaging until use.

Packaging Type:

- Each alu-alu contains 10 uncoated tablets.
- Packed in Alu-Alu strips, 10x1x10 tablets Mono pack.

