

Brand Name: AXO-CT 4 Injection

Composition: Citicoline Injection IP

Dosage Form: Injection

Category: Nootropic / Neuroprotective Agent

Packaging Type: AMPULE

Packaging: 5 x 4 ml AMPULE

Brief Product Introduction:

AXO-CT 4 Injection is a sterile injectable solution manufactured by **AstraEureka Pharmaceutical**, a trusted manufacturer of citicoline sodium-based formulations. It is used primarily in the management of neurological disorders and brain injuries. The key active ingredient, **Citicoline**, is a neuroprotective agent that supports brain recovery and cognitive functions.

Composition:

Each ml contains:

- Citicoline Sodium IP
equivalent to Citicoline.....250 mg
- Water for Injection IP.....q.s.

Key Ingredients:

- **Citicoline Sodium IP (Equivalent to Citicoline 250 mg/ml):** A potent brain chemical involved in repairing neuronal damage and enhancing neurotransmission.
- **Water for Injection IP (Q.S.):** Sterile solvent used to dilute and deliver the active ingredient safely.

Key Benefits:

1. Promotes recovery in stroke and head injury patients
2. Enhances memory and learning function
3. Supports cognitive rehabilitation in dementia and Parkinson's disease
4. Protects neurons from ischemic damage
5. Improves attention and mental clarity

Indications:

1. Cerebrovascular accidents (stroke)
2. Traumatic brain injury (TBI)
3. Cognitive impairment and memory disorders
4. Parkinson's disease (as adjunct therapy)
5. Alzheimer's disease and vascular dementia

6. Age-related neurodegenerative conditions

Directions for Use:

1. Should be administered by a qualified healthcare professional only
2. Use aseptic precautions before injecting
3. Administer via intramuscular (IM) or slow intravenous (IV) route

Dosage and Administration:

1. Standard dose: 500–1000 mg/day depending on severity and condition
2. Frequency and duration as prescribed by the treating physician
3. Can be given as a single daily dose or divided doses
4. Suitable for short-term and long-term therapy under supervision

Safety Information:

1. For hospital/institutional use only
2. Avoid self-administration
3. Regular monitoring may be required in long-term use
4. Inform the doctor about any pre-existing medical conditions
5. Use with caution in pregnant or breastfeeding women

Mechanism of Action:

- Citicoline is an intermediate in the synthesis of phosphatidylcholine, a major component of brain tissue. It enhances the production of brain neurotransmitters such as acetylcholine and dopamine.
- Citicoline helps in stabilizing neuronal membranes, reducing free radical formation, and promoting repair of damaged neurons.
- It also reduces the accumulation of free fatty acids at the site of brain injury, thereby reducing inflammation and neuronal death.
- Its neuroprotective effects make it highly effective in treating acute and chronic cerebral disorders.

Contraindications:

1. Hypersensitivity to Citicoline or any excipients
2. Patients with hypertonia of the parasympathetic nervous system
3. Not recommended for children unless specifically advised

Side Effects:

1. Mild gastrointestinal discomfort

2. Insomnia or restlessness
3. Headache or dizziness
4. Rarely, allergic reactions like rash or itching
5. Hypotension in some cases

Important Notice:

- This product should be used under the supervision of a registered medical practitioner.
- Not intended for self-medication.
- Do not exceed the prescribed dosage.
- Not suitable for pediatric use unless prescribed.

Storage Condition:

1. Store below 25°C
2. Protect from direct sunlight and moisture
3. Keep out of reach of children
4. Do not freeze

Packing Information:

- Primary packaging: Glass ampules.
- Pack size: 5 ampules of 4 ml each per carton.
- Secondary packaging: Try with Printed carton.