

# L-Gluthome Injection

## Product Information: L-Alanyl-L-Glutamine (20g/100mL) Injection

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### Composition:

- **L-Alanyl-L-Glutamine (20g/100mL):** A dipeptide of alanine and glutamine used as a parenteral nutrient supplement.
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### Pharmacological Class:

- **L-Alanyl-L-Glutamine:** Amino acid derivative used as a source of glutamine and nitrogen for nutritional support.
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### Indications:

L-Alanyl-L-Glutamine injection is indicated for:

- Parenteral nutrition (PN) in critically ill patients who cannot meet their nutritional needs orally or enterally.
- Conditions requiring glutamine supplementation, including:
  - Severe burns.
  - Trauma or post-surgical recovery.
  - Gastrointestinal disorders such as short bowel syndrome.
  - Cancer therapy (to improve recovery during chemotherapy or radiation therapy).

### Mechanism of Action:

- **L-Alanyl-L-Glutamine** provides glutamine in a stable dipeptide form. Glutamine is an essential substrate for rapidly dividing cells (e.g., enterocytes and immune cells) and plays a vital role in:
    - Protein synthesis.
    - Maintaining intestinal barrier function.
    - Supporting immune function.
    - Acting as a precursor for nucleotides and neurotransmitters.
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### Dosage and Administration:

- **Recommended dose:**
    - **Adults:** Typically 0.3–0.5 g/kg/day administered intravenously as part of total parenteral nutrition (TPN).
    - The dose should be adjusted based on clinical condition and nutritional requirements.
  - **Administration:**
    - Dilute the injection with a compatible intravenous fluid (e.g., saline, glucose, or amino acid solutions) before infusion.
    - Administer as a continuous infusion through a central or peripheral vein as directed by a healthcare provider.
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## Contraindications:

- **Hypersensitivity to L-Alanyl-L-Glutamine or any component of the formulation.**
  - **Severe hepatic or renal impairment without appropriate monitoring of nitrogen levels.**
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## Warnings and Precautions:

- **Hyperammonemia: Monitor for ammonia levels, especially in patients with compromised liver function.**
  - **Electrolyte imbalance: Regular monitoring is recommended to prevent complications due to electrolyte or fluid overload.**
  - **Renal function: Use with caution in patients with renal impairment; ensure nitrogen levels are monitored.**
  - **Allergic reactions: Discontinue use immediately if signs of hypersensitivity (e.g., rash, urticaria, or anaphylaxis) occur.**
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## Adverse Effects:

- **Common: Local irritation at the infusion site, mild nausea.**
  - **Uncommon: Hyperammonemia, metabolic acidosis, and electrolyte imbalances.**
  - **Rare: Hypersensitivity reactions, including rash, fever, or chills.**
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## Drug Interactions:

- **Compatible with most TPN solutions; however, compatibility**

**should always be verified before mixing.**

- **Avoid simultaneous use with other nitrogen-containing compounds without careful monitoring to prevent nitrogen overload.**
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## Use in Special Populations:

- **Pregnancy: Use only if clearly indicated and the benefits outweigh the risks (limited human data available).**
  - **Lactation: Insufficient data; consult with a healthcare provider.**
  - **Pediatrics: Safety and efficacy in children have not been fully established. Use with caution under expert guidance.**
  - **Geriatrics: Dose adjustments may be necessary depending on renal and hepatic function.**
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## Storage:

- **Store below 25°C. Do not freeze.**
  - **Protect from light and keep out of reach of children.**
  - **Use immediately after opening the vial; discard unused portions.**
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## Packaging:

- **Sterile, single-use vial containing 20g of L-Alanyl-L-Glutamine in 100mL solution.**
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## Key Points for Healthcare Providers:

- 1. Administer as part of a carefully monitored TPN regimen.**
  - 2. Monitor serum glutamine levels, nitrogen balance, and overall metabolic status during therapy.**
  - 3. Watch for signs of intolerance, including metabolic complications or infusion reactions.**
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#### **Patient Information:**

- This injection is administered under the supervision of a healthcare professional.**
  - Inform your doctor about any known allergies, liver, or kidney conditions.**
  - Report any unusual symptoms, such as dizziness, nausea, or swelling, during or after the infusion.**
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**L-Alanyl-L-Glutamine injection is a critical supplement for providing glutamine in patients requiring parenteral nutrition, particularly in severe catabolic states. Proper administration and monitoring ensure optimal therapeutic outcomes.**

Manufactured in India for:

**Cafoli**<sup>TM</sup>  
L I F E C A R E

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