



Magnum Compounding LLC
490 W 84 St, Hialeah, FL 33014
Phone: (786) 622-2301
Fax: (786) 622-2319
Toll Free: (855) 403-6028

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COMPOUNDED INJECTABLE FORMULA INFORMATION SHEET

Product Name: L-Carnitine 500 mg/mL Injection

Formulation Type: Sterile Injectable Solution (Intramuscular Use)

Vial Size: 10 mL Vial

ACTIVE INGREDIENTS (per mL)

Ingredients	Strength (mg / mL)	Role & Benefits
L-Carnitine	500 mg / mL	L-Carnitine is classified as a metabolic cofactor that facilitates the transport of fatty acids into the mitochondria, supporting cellular energy production.

DESCRIPTION: L-Carnitine is a naturally occurring amino acid derivative that plays a central role in cellular energy metabolism by transporting long-chain fatty acids into the mitochondria via the carnitine shuttle system. Within the mitochondria, these fatty acids undergo beta-oxidation to produce ATP. It may also help reduce the buildup of toxic acyl-CoA compounds and support overall mitochondrial function.

INDICATIONS: L-Carnitine may be prescribed for:

- Primary or secondary carnitine deficiency
- Support of mitochondrial function
- Fatigue and low energy states
- Metabolic support
- Adjunctive therapy in weight management programs
- Athletic performance and recovery support (off-label)

DOSAGE & ADMINISTRATION: Use should be determined by a licensed healthcare provider. Inject into the muscle as prescribed. Rotate injection sites.

POTENTIAL SIDE EFFECTS

Common Side Effects: Nausea, Vomiting, Abdominal Discomfort, Injection Site Pain, Mild Diarrhea.

Less Common Side Effects: Fishy body odor (due to trimethylamine formation), Headache, Restlessness.

Serious Side Effects (Rare): Seizures (particularly in patients with seizure disorders), Hypersensitivity reactions.

Seek medical attention if severe symptoms occur.

If you have any questions or concerns regarding your medication, please do not hesitate to contact us.



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STORAGE: Store at controlled room temperature (20–25°C / 68–77°F). Protect from light. Do not use beyond the assigned Beyond-Use Date (BUD) per USP <797> guidelines.

WARNINGS & PRECAUTIONS

- Use only under the supervision of a healthcare provider
- Use caution in patients with seizure disorders
- Use caution in patients with renal impairment
- Monitor for gastrointestinal intolerance at higher doses

IMPORTANT SAFETY CONSIDERATIONS: Intravenous administration of L-Carnitine should be performed slowly and under medical supervision. Rapid administration may increase the risk of adverse effects.

LEGAL DISCLAIMER: This compounded sterile preparation is dispensed pursuant to a valid prescription from a licensed healthcare provider. Magnum Compounding LLC prepares sterile medications in accordance with applicable compounding standards. The pharmacy does not diagnose medical conditions or determine treatment plans.

REFERENCE

1. United States Pharmacopeia (USP) <797> Sterile Compounding
2. StatPearls – Levocarnitine
3. FDA Drug Label – Carnitor® (levocarnitine)
4. Goodman & Gilman's The Pharmacological Basis of Therapeutics

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