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TOGETHER**

COMPOUNDED INJECTABLE FORMULA INFORMATION SHEET

Product Name: Liraglutide

Formulation Type: Sterile Injectable Solution (Subcutaneous Use Only)

Vial Size: 3 mL Multi-Dose Vial (MDV)

ACTIVE INGREDIENTS (per mL)

Ingredients	Strength (mg / 3 mL)	Role & Benefits
Liraglutide	45 mg, 90 mg	Long-acting analog of human GLP-1, a hormone involved in glucose metabolism and appetite regulation.
Niacinamide	6 mg	Supports insulin sensitivity and reduces inflammation.
L-Carnitine	50 mg	Assists in fatty acid metabolism and energy production.

OTHER INGREDIENTS:

- Benzyl Alcohol 0.9% (Preservative)
- Water for Injection, USP (Vehicle)
- pH adjusted with Sodium Hydroxide and/or Hydrochloric Acid may be used

DESCRIPTION: This compounded formulation combines Tirzepatide, a GLP-1 receptor agonist, with Niacinamide and L-Carnitine to support glucose regulation, enhance fat metabolism, and promote metabolic health. It is intended for subcutaneous administration and may be used as part of a comprehensive weight-management or metabolic-wellness program.

INDICATIONS:

- Support for weight management and metabolic health
- Adjunct to diet and exercise for glucose regulation
- Fatty acid metabolism and energy enhancement

DOSAGE & ADMINISTRATION

Route: Subcutaneous Injection Only. Administer in the abdomen or thigh using proper aseptic technique

*This product is to be administered under licensed medical supervision.

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STORAGE: Store refrigerated at 2°C to 8°C (36°F to 46°F). Do not freeze. Protect from light and heat. Keep the vial capped when not in use.

PRIMARY ROLES & CLINICAL BENEFITS

Glycemic Control (Type 2 Diabetes Mellitus): Improves both fasting and postprandial glucose. Reduces A1C by ~1.0–1.5% on average. Low risk of hypoglycemia when used alone (due to glucose-dependent mechanism). Can be combined with metformin, SGLT2 inhibitors, DPP-4 inhibitors, or basal insulin.

Weight Management / Obesity: FDA-approved (as *Saxenda*®) for chronic weight management in adults with BMI ≥ 30 kg/m², or ≥ 27 kg/m² with comorbidities (HTN, dyslipidemia, T2DM). Promotes clinically meaningful weight loss — average 5–10% of baseline weight in 16–56 weeks. Improves cardiometabolic parameters (waist circumference, triglycerides, blood pressure, insulin resistance).

Cardiovascular Benefits: Demonstrated in the LEADER trial to significantly reduce major adverse cardiovascular events (MACE) in high-risk patients with T2DM. Improves lipid profile and endothelial function.

Additional Metabolic & Functional Benefits (Emerging Use): Enhances hepatic insulin sensitivity and may improve NAFLD/NASH markers. Supports weight-related polycystic ovary syndrome (PCOS) management by improving insulin resistance. When compounded with Niacinamide and L-Carnitine, the combination may further support mitochondrial energy metabolism, fat oxidation, and glucose utilization.

WARNINGS & PRECAUTIONS:

- Do not use in patients with a personal or family history of medullary thyroid carcinoma
- Not for use in patients with multiple endocrine neoplasia syndrome type 2 (MEN 2)
- Use caution in patients with renal, hepatic impairment, or Gallbladder disease.
- Monitor for signs of pancreatitis or hypoglycemia when used with insulin or sulfonylureas
- Monitor blood sugar and A1C
- Monitor Weight and waist circumference
- Monitor Renal and hepatic function
- Monitor Signs of Pancreatitis or Gallbladder Inflammation

IMPORTANT SAFETY INFORMATION:

- For use only under the care of a licensed prescriber. This sheet is informational only; the prescriber determines dosage and regimen.

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- GLP1/GIP therapy may commonly cause GI effects (nausea, vomiting, diarrhea, constipation). Contact your prescriber if severe or persistent.
- Seek urgent care for symptoms of pancreatitis (severe abdominal pain), gallbladder disease (upper-right abdominal pain), or allergic reactions.
- Risk of hypoglycemia increases when used with insulin or insulin secretagogues; the prescriber may adjust other medications.
- Do not use it if pregnant or breastfeeding unless the prescriber directs. Not for patients with personal/family history of medullary thyroid carcinoma (MTC) or MEN2 unless prescriber specifically approves.

POTENTIAL SIDE EFFECTS: Localized pain in the injection site. Mild flushing, tingling, or dizziness. Rare: allergic reaction or anaphylaxis. Notify the provider of any unusual or persistent symptoms.

SUPPLIES NEEDED:

- Prescribed vial (multidose)
- U-100, U-50, U-30 insulin syringes (1ml, 0.5 mL, 0.3ml)
- Alcohol prep pads
- Cotton/gauze pad or bandage
- FDA-cleared sharps container

HOW TO PREPARE & INJECT

- 1) Wash your hands and gather supplies.
- 2) Clean the vial's rubber stopper with an alcohol pad; allow it to dry.
- 3) Draw air into the syringe equal to your intended dose (in units).
- 4) Insert the needle into the vial, inject the air, invert the vial, and withdraw the required units.
- 5) Check for bubbles; tap to move them to the top and expel.
- 6) Clean the injection site (abdomen, thigh, or upper arm; avoid 2" around navel). Pinch the skin and insert the needle at a 90 ° angle.
- 7) Inject slowly. Remove needle, apply gentle pressure; do not rub.
- 8) Rotate injection sites with each dose.

DRUG DISPOSAL: Unused or expired compounded medications should be disposed of properly according to local regulations. Do not flush medications down the toilet or pour them into a drain unless instructed to do so. Consult

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with your pharmacy or local waste disposal authority for appropriate disposal methods. Magnum Compounding can provide guidance or accept returned compounds for proper disposal when applicable.

SHIPPING & HANDLING: Shipped cold. Do not use it if exposed to improper temperature or physical damage. Inspect before use.

INJECTION SAFETY CONSIDERATIONS (CDC GUIDANCE):

- Medications should be drawn up in a designated clean medication preparation area using a new sterile syringe and sterile needle.
- Prepare an injection as close as possible to the time of administration to the patient.
- Do NOT leave the needle inserted into a medication vial septum for multiple uses.
- Vials labeled as single-dose or single-use should be used for only a single patient and entered only once.
- Do NOT combine (pool) leftover contents of single-dose or single-use vials or store them for later use.
- If a single-dose or single-use vial has been opened or accessed (e.g., needle-punctured), it should be discarded according to pharmacy policy or at the end of the procedure, whichever is sooner.
- Discard any medication vial if sterility is compromised or questionable.
- Multi-dose vials should be dedicated to a single patient whenever possible.
- Once opened, multi-dose vials must be dated and discarded within 28 days unless otherwise specified by the pharmacy label.

NEEDLE & SYRINGE DISPOSAL: Dispose of used needles/syringes immediately in an FDA-cleared sharps container. Do not recap or reuse needles. Follow local regulations or ask your pharmacy about disposal.

REFERENCES

- Victoza® (liraglutide) FDA Prescribing Information, Novo Nordisk.
- Saxenda® (liraglutide) FDA Prescribing Information, Novo Nordisk.
- LEADER Trial, *N Engl J Med*, 2016.
- Nauck MA et al., *Diabetes Obes Metab*, 2021.
- Kushner RF et al., *Obesity*, 2020.

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