

EZ-LNP™ RNA Transfection Kit

Quick Start Guide

What's in the Package

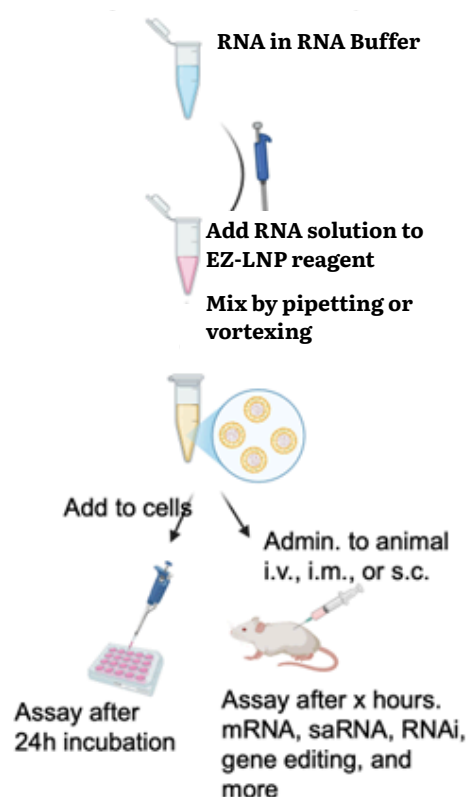
- 1x User Manual
- 1 vial of EZ-LNP
- 1–3 vial(s) of RNA Buffer

Storage Requirement

- Store both vials at 4C upon arrival

Quick Protocol: Mix & Inject

1. Warm up EZ-LNP
 - a. Incubate EZ-LNP vial at 37°C for at least 10 minutes.
 - b. The solution should become clear with no visible particulates.
 - c. Do not warm EZ-Buffer — use directly.
2. Prepare RNA Solution
 - a. Dilute RNA in EZ-Buffer to your desired concentration.
 - b. Typical final RNA concentration: 100–180 µg/mL
 - c. Recommended: 130–150 µg/mL
3. Formulate LNP-RNA Complex
 - a. In a clean microcentrifuge (Eppendorf) tube:
 - b. Add 1 part EZ-LNP solution
 - c. Then quickly add 3 parts RNA solution
 - d. Immediately pipette up and down ≥20 times (vigorously) or vortex for ~3 seconds
4. Use Immediately
 - a. The LNP-RNA formulation is now ready
 - b. Keep on ice and use the same day for best results.



Additional Notes

- For initial test quick screening, RiboGreen test is not necessary.
- The concentration of RNA in the LNP formulation is about 0.7 x RNA concentration in step2 (EZ-LNP achieves ~95% encapsulation efficacy in most cases).
- For different RNAs, the dose and readout time may need to be optimized.
- EZ-LNP is for research use only.

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