



Harness the Power of Lipid Nanoparticles (LNPs) for Next-Gen Therapeutics!

Discover the potential of nucleic acid therapeutics with our cutting-edge LNP platform. Collaborate with us to benefit from advanced RNA delivery technologies and extensive expertise.

Our comprehensive suite of **analytical tools** offers insights into:

- *In vitro* delivery mechanisms
- *In vivo* biodistribution patterns
- Tissue targeting efficacy
- Immune response dynamics and tolerability

Our Key Services:

- Bioluminescence *in vivo* imaging for real-time monitoring of RNA delivery
- Detection and visualization techniques including single-cell barcode sequencing, RNAscope™, qPCR, and immunohistochemistry (IHC)

Ensure Safety:

- Assess the tolerability of novel LNPs with *ex vivo* cytokine profiling, liver enzyme profiling, and complement activation assessment. Choose from safety packages or single toxicology studies tailored to your needs!

Contact us

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Explore Our LNP Delivery Platform!

Advanced *In Vitro* Delivery Analysis:

Unlock the potential of your lipid nanoparticle (LNP) formulations with our high-content analysis, offering detailed insights into cellular LNP entry, endosomal escape, and RNA translation. Our multiplexed assays enable simultaneous measurement of three critical cellular steps:

LNP Uptake:

- Quantification of Cy5-labelled RNA delivered by LNPs

Endosomal Escape:

- Utilization of fluorescent Gal9 reporter for precise assessment

Delivery:

- Evaluation of GFP expression from delivered RNA
- Versatile assay system adaptable to various cell lines, including those from different tissues or iPSCs

In Vivo Biodistribution Assessment:

- Bioluminescence *in vivo* imaging of LNP:luc mRNA (BLI)
- *Ex vivo* analyses
- Single-cell sequencing
- hEPO (ELISA)
- RNA in situ hybridization (RNAscope™)
- Target mRNA quantification (qPCR), and IHC

Tolerability Assessment:

Ensure safety and tolerability with our comprehensive studies via:

- Cytokine profiling
- Liver enzyme profiling
- Complement activation

Tailored safety packages or single toxicology studies. Available in both non-GLP and GLP formats.

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