# Millipore CTDMO Services





# Early Formulation Screening Service

Bringing your Nucleic Acid modalities into the optimal Lipid Nanoparticle formulation

As part of our globally integrated mRNA-LNP CDMO capabilities, the Early Formulation Screening Service, located at our headquarters in Darmstadt, Germany, encompasses a best-inclass expert team that is dedicated to screening and optimizing lipid nanoparticle (LNP) formulations for your nucleic acid payloads.

# We overcome your challenges in LNP formulation development

Lipid nanoparticles are essential to ensure safe and efficient delivery of nucleic acids to cells.

These particles, typically composed of four different lipids, provide a protective bubble for the delicate RNA molecules. Effortless? Most certainly not. The lipid type, the identification of the appropriate composition that provides effective results, the optimal manufacturing process of LNPs, the development of advanced characterization techniques, or long-term stabilization, are only a few examples of technical challenges that we, as experts in the field, tackle for you.

#### **Our key technical strengths**

- Expertise across multiple nucleic acid modalities and lipid-based drug delivery systems
- Access to state-of-the-art ionizable lipids from multiple libraries
- Advanced analytical characterization including in vitro cell culture studies
- Dedicated stability studies at desired storage conditions
- Broad variety of mixing technologies
- A full CDMO service from mRNA/lipid manufacturing to GMP formulation manufacturing including Fill and Finish



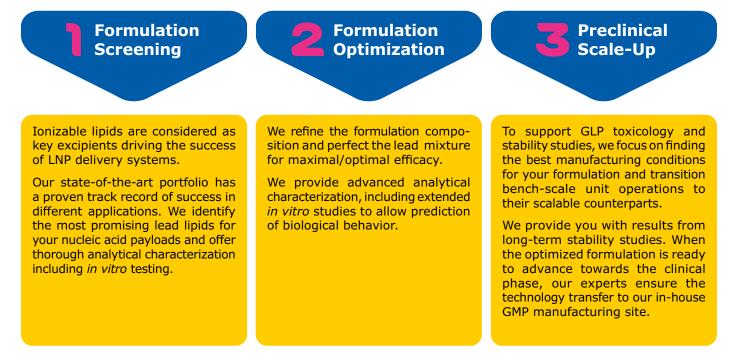
### Get the optimal formulation for your nucleic acid and bring it to the next level

The Early Formulation Screening service is dedicated to the preclinical space, within our globally connected mRNA-LNP CDMO offering. Whether you have experience in LNP formulation or not, we customize

our offer and adapt it to your needs. Make use of our high-quality raw materials and Early Formulation Screening service to advance your project to first-inhuman/clinical studies.



The Early Formulation Screening service applies three development steps to your project.



### **Discover more about our LNP CDMO offering:**

www.sigmaaldrich.com/services/contract-manufacturing/mrna-and-Inp-formulation-ctdmo-services

Find out more about our integrated mRNA-LNP offering on our website: sigmaaldrich.com/mrna



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