

Lipid Nanoparticle (LNP) Encapsulation Capabilities

Offering cutting-edge Lipid Nanoparticle (LNP) encapsulation services can support a wide range of applications, including mRNA vaccines, addressing therapeutic areas such as infectious diseases, oncology, and rare diseases.

BioCina leverages advanced technologies and a highly skilled team to deliver high-quality, scalable LNP solutions tailored to your needs.

Drug Substance Source

Recombinant Proteins / Peptides, pDNA, mcDNA, mRNA

LNP Encapsulation

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Polishing or Filtration

Formulation & Bulk Fill

LNP Development and Manufacturing Scales

Stage	Equipment	Working Volume	Yield
Process Development	Non-Turbulent Microfluidic Mixing (Various Scales Available)	20 µL – 1 L (Pre-Dilution)	Up to 4 L
cGMP Manufacturing		1 – 50 L (Pre-Dilution)	Up to 40+ L

Typical mRNA / LNP Development and Manufacturing Timelines

