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Contact Us

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One-Stop CDMO Services For **Plasmids & mRNAs**

A white outline of a clock face with a small hand pointing to the top, positioned to the right of the main text.

Your Dedicated CDMO Partner for Plasmids & mRNAs
From Concept to Market

Our streamlined plasmid & mRNA CDMO services enables single-source solution to advance your molecule from concept to market from ONE site. The choice of ONE powerhouse guarantees in-time milestone completion, reliable budget control and robust regulatory strategy.



Plasmid Production

- Robust & scalable process development platform
- Fermentation scale options of 15L & 50L
- Significant expansion potential of 7 cGMP lines



Plasmid Purification

- Cell Lysis
- Classic 3-step chromatography
- Advanced 2-step chromatography
- Ultrafiltration



mRNA Synthesis

- In vitro transcription (IVT)
- Options of co-transcriptional capping and enzyme capping
- Flexible IVT scale options up to 5L



Plasmid Linearization

- Enzyme digestion
- Ultrafiltration



mRNA Purification

- Oligo-dT chromatography
- Tangential flow filtration (TFF)
- UF/DF



Encapsulation & LNP Formulation

- Process development
- Formulation development
- Encapsulation scale up to 100L



Aseptic Fill-Finish

- Filling: 12,000 vph max speed (2R to 20R)
- Frozen storage



LNP Purification

- Tangential flow filtration (TFF)
- Diafiltration

AsymBio advances your molecules faster through the journey to IND.

Services	Month1				Month2				Month3				Month4				Month5				Month6				Month7				Month8			
	week1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Plasmid	Bacterial bank production	█																														
	Process development					█																										
	Analytical development					█				█																						
	Non-GMP manufacturing & release					█				█																						
	GMP manufacturing & release					█				█																						
mRNA	Stability study					█				█				█				█				█										
	Process development					█																										
	Analytical development					█				█																						
	Non-GMP manufacturing & release					█				█																						
	GMP manufacturing & release					█				█																						
mRNA-LNP	Stability study					█				█				█				█				█										
	Process characterization					█				█				█				█				█										
	Process development					█																										
	Formulation & analytical development					█				█																						
	Non-GMP manufacturing & release					█				█				✓																		
	GMP manufacturing & release					█				█				█				✓														
IND filing	Stability study					█				█				█				█				█										
	Process characterization					█				█				█				█				█										
	IND filing					█				█				█				█				█										

The right quality attributes unlock the success of your mRNA.

Plasmid	mRNA DS		mRNA-LNP DP	
Appearance	Appearance	% Capping	Appearance	mRNA sequence identification
pH	pH	Poly A distribution	Visible foreign body	LNP size
Concentration	mRNA concentration	mRNA Transfection efficiency	Insoluble particles	PDI
A260/280	A260/280	mRNA expression	Penetration pressure	Zeta potential
DNA sequence	Purity	Endotoxin	Extractable volume	DSC
Restriction enzyme profile	mRNA sequence integrity	Sterility	mRNA sequence integrity	SEC-MALS
HCP	mRNA length	DNA template residual	mRNA concentration	NTA
HCD	mRNA sequence accuracy	dsRNA residual	mRNA encapsulation rate	Morphological analysis of liposome
HCR	Residual protease		Liposome content/identification	Potency/in vitro expression
Supercoiled ratio			Lipid impurity	Endotoxin
Endotoxin			Residual ethanol	Particulate matter
Sterility			Moisture	