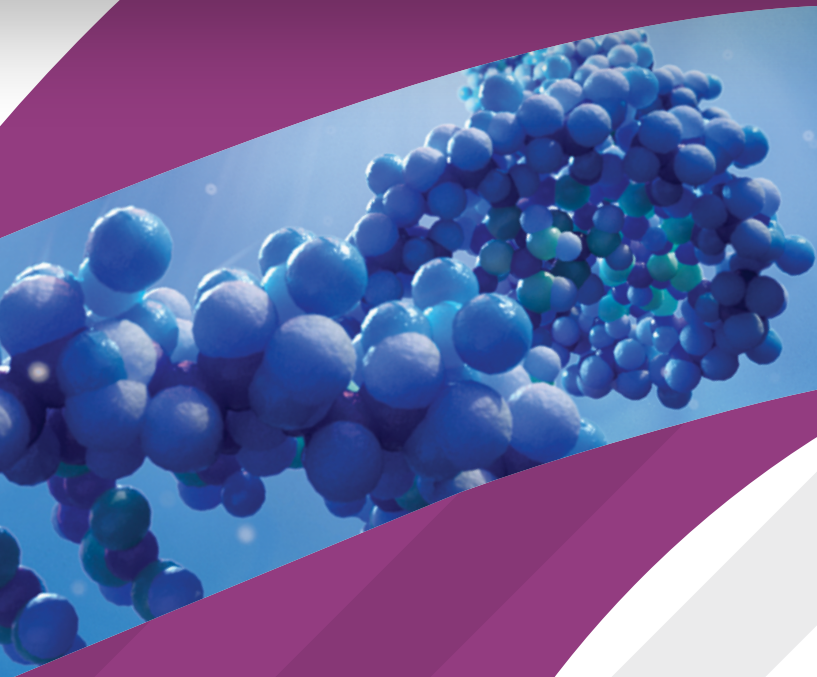




# mRNA

SYNTHESIS WITH MULTI-SCALE PRODUCTION



## **Innovative Science. Consistent Biologics. Experienced Partner.**

### **Aldevron makes high quality mRNA supporting:**

- Protein Replacement Therapy
- Cancer Immunotherapy
- Genetic Reprogramming
- Infectious Disease Vaccines
- Genome Engineering
- Allergy Vaccines
- Gene Editing
- Regenerative Therapies



# Aldevron makes the highest quality biologics.

Aldevron makes mRNA for the most demanding applications. We build trust and confidence through open communication and focused teams that are committed to reaching your end goals. With mRNA manufactured by Aldevron, advance with confidence into and beyond your clinical stages of development.

## mRNA Supports

Aldevron mRNA services support these types of projects and we can also customize to your needs.

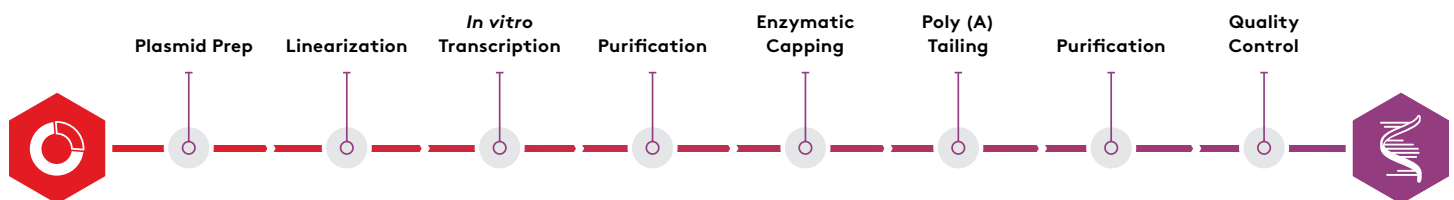
- Protein Replacement Therapy
- Cancer Immunotherapy
- Genetic Reprogramming
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## Modification Offerings

- 5' Capping
- 3' Poly (A) Tailing
- Modified Bases

## Capabilities

The Aldevron advantage for mRNA manufacture includes the in-house production of a cell bank and the DNA template and IVT (*in vitro* transcription) enzymes under the best quality levels, all in a single production process under one roof.



## Capacity

Aldevron manufacturing processes are scalable, delivering milligram to multigram quantities for research through commercial uses.

Our facility is the most advanced of its kind, offering unparalleled capacity. Some of the highlights include:

- Four production trains across 32 suites
- 17,000 square feet of state-of-the-art modular clean-rooms with single-pass air cell banking, inoculation and fill/finish
- Advanced, independent air-handling system, unidirectional personnel flow and airlocks within the cGMP area
- Supporting areas: climate-controlled warehouse, quality control testing laboratory, large interior mezzanine for validated utilities



We have extensive experience manufacturing high quality biologics, and we exclusively offer Research Grade, GMP-Source<sup>®</sup> and cGMP services tailored to each stage of your product development through commercialization.

The Aldevron Process	Research Grade	GMP-Source <sup>®</sup>	cGMP
Flexible entry points	✓	✓	✓
Gene synthesis and cloning	✓	✓	✓
pDNA preparation & linearization	✓	✓	✓
<i>In vitro</i> transcription	✓	✓	✓
Proprietary purification process	✓	✓	✓
Certificate of Analysis (CoA)	✓	✓	✓
TSE/BSE statement	○	✓	✓
Manufacturing summary report		✓	✓
<i>E. coli</i> master cell bank generation		✓	✓
Validated QA oversight		✓	✓
Process development/engineering	○	○	✓
Validated change control system			✓
Product specific master batch records		○	✓
ISO classified production suites			✓
Environmental monitoring			✓
	Quickest option for high quality mRNA	Faster, cost-effective cGMP alternative	Highest level of quality and customization

○ = Optional feature

## Contact us about Aldevron mRNA

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Additional facility in Madison, WI

Visit: [aldevron.com/contact](http://aldevron.com/contact)



Since 1998, Aldevron has been proud to support novel therapies and vaccines with the supply of plasmid DNA, RNA, and proteins. Produced to our clients specifications using a robust and scalable process, these biologics are available for research or manufactured using cGMP for clinical trials and commercial applications.