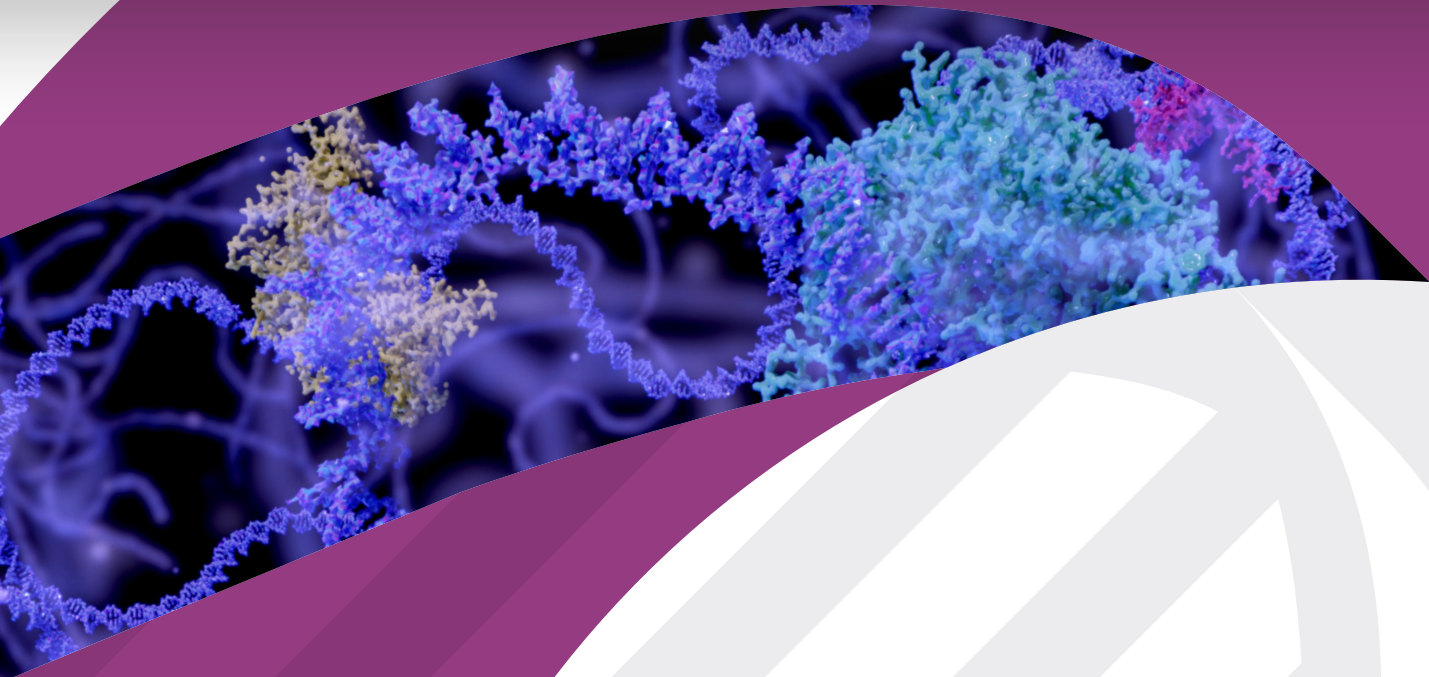




mRNA

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
- Infectious Disease Vaccines
- Genome Engineering
- Allergy Vaccines
- Gene Editing
- Regenerative Therapies

Modification Offerings

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

Capacity

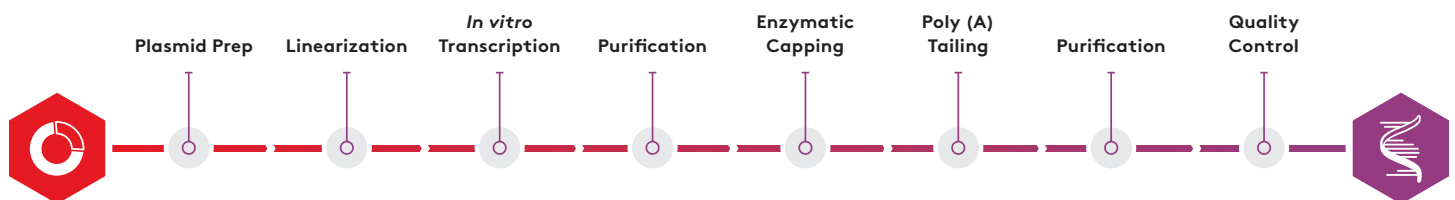
Aldevron manufacturing processes are scalable, delivering milligram to multigram quantities for research through commercial uses.

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

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.





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

The Aldevron Process

	Research Grade	GMP-Source®	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			✓

○ = Optional feature

Quickest option for high quality mRNA

Faster, cost-effective cGMP alternative

Highest level of quality and customization

Contact us about Aldevron mRNA

4055 41st Avenue South, Fargo, ND 58104 USA

+1 (701) 297-9256 Toll-free (U.S. and Canada): +1 (877) 787-3362

Additional facility in Madison, WI

Visit: aldevron.com/contact



Since 1989, Aldevron has been a proud partner of research laboratories through the production of:

- Plasmid DNA at any scale, with fast turnaround times
- Proteins in bacterial, insect and mammalian expression systems
- mRNA to your specifications using a robust and scalable process

Aldevron supports research-use production through commercialization.