Plasmids
MEETING ALL QUALITY STANDARDS

Getting you to the answer. Faster.

Aldevron makes high quality plasmids supporting:
Viral Vectors (AAV, Lentivirus)
DNA Vaccines
CAR-T Cell Therapy
Gene Editing
Cloning & DNA Synthesis
High Throughput Screening
mRNA production
Aldevron makes the highest quality biologics.

Your programs are important, and your time is valuable. Aldevron is a responsive and reliable resource of plasmid DNA for research, pre-clinical and commercial use. We are ready to be your basis for breakthroughs.

**Plasmids DNA**

Aldevron has proven experience with an extensive range of plasmid DNA projects.

- Viral Vector (AAV, Lentivirus)
- DNA Vaccines
- CAR-T Cell Therapy
- Gene Editing
- Cloning & DNA Synthesis
- High Throughput Screening
- mRNA Production

**Capabilities**

Regardless of the number of constructs, you can count on reliable plasmid DNA for research, pre-clinical, clinical and commercial uses.

Including:

- Supercoiled Plasmid DNA
- Linearized Plasmid DNA
- Minicircle Plasmid DNA
- Nanoplasmid DNA
- Bacmid Plasmid DNA

Aldevron has research grade capacity for thousands of small-scale plasmid preps per day, and large-scale capacity for manufacturing under our research grade, GMP-Source™ and cGMP service levels.

**Capacity**

Aldevron has the world’s largest and most advanced plasmid DNA manufacturing facility offering unparalleled cGMP capacity and flexibility for clinical and commercial production. 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, inoculations 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
- Multiple bacterial fermentation scales:
  - Shake Flask
  - 10L
  - 30L
  - 300L
  - 2000L (Expansion Available)

![Aldevron Facility](image)
We make our plasmids at different service levels to meet your requirements. Research grade is the quickest option for high quality plasmid DNA. GMP-Source™ is a cost effective alternative to cGMP. Our cGMP service provides the highest quality oversight, process control and can support any application, including parenteral administration.

The Aldevron Process

<table>
<thead>
<tr>
<th>Feature</th>
<th>Research Grade</th>
<th>GMP-Source™</th>
<th>cGMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growth via shake flask or high-density fermentation</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Alkaline lysis</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Chromatographic purification</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Certificate of Analysis (CoA)</td>
<td>✓</td>
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<td>✓</td>
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<tr>
<td>Consistent manufacturing process</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Screening for optimal growth conditions</td>
<td>✓</td>
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<td>✓</td>
</tr>
<tr>
<td>E. coli master cell bank generation</td>
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<tr>
<td>Manufacturing summary report</td>
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<tr>
<td>TSE/BSE statement</td>
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<td>✓</td>
</tr>
<tr>
<td>Validated quality assurance oversight</td>
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<td>✓</td>
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<tr>
<td>Development/engineering work prior to banking and growth</td>
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<td></td>
<td>✓</td>
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<tr>
<td>Validated change control systems</td>
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<tr>
<td>Project specific master batch records</td>
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<td></td>
<td>✓</td>
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</tbody>
</table>

Quickest option for high quality plasmid DNA
Faster, cost-effective cGMP alternative
Highest level of quality and customization
For the last 21 years, Aldevron has been a proud partner of the biotechnology industry 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
- Novel antibodies using our genetic immunization technology

Aldevron supports research-use production through commercialization.