

# Critical Starting Material Manufacturing & Plasmid Development Services

Whether you are in need of GMP, High Quality or Research-Grade Plasmids, Pharmaron's Platform Plasmid Development & Manufacturing capabilities can provide rapid access to Purified Plasmid stocks.



Simplify your Supply Chains by co-locating your source of **Plasmid DNA** and **AAV** products at Pharmaron



## GMP-Grade Plasmids & Seed Banks



### Capabilities

- Dedicated microbial GMP processing suites
- Microbial seed bank (MSB) production, release & storage
- Gram-scale manufacture of Purified Bulk Plasmid
- Validated platform release assays



### Features

- Access to Pharmaron's in-house plasmid constructs for AAV manufacture
- Animal component-free platform manufacture
- Adoption of single-use technologies



### Analytics

- Regulatory acceptable assay release panel available
- Expertise in developing plasmid specific methods
- Minimal optimisation required for custom plasmid constructs
- Sensitive & quantitative detection of residual impurities



### Key Benefits

- Consistent quality of seed banks and purified plasmids
- Fast access via deployment of platform manufacturing and analytical platforms
- High AAV genomic titres enabled by Pharmaron constructs



### Stability Studies

Pharmaron can support the demonstration of plasmid stability under long-term cold-storage conditions.

**Talk to us about your stability study requirements!**

## Research-Grade Plasmids

The success of viral vector development programs can depend on the ability to have rapid access to a consistent supply of non-GMP grade plasmids. At Pharmaron, we support our customers via the delivery of Research-Grade plasmids for use during early stages of product development. Production methods comparable to those used for GMP-grade plasmids ensures consistency of plasmid quality and performance.



### Features of Research-Grade Plasmids

- Production of up to 0.5 g Purified Bulk Plasmid
- Research-grade AAV Helper and Rep Cap plasmids available for immediate use
- Analysis of Key Plasmid Quality Attributes (% plasmid supercoiling and residual process contaminants)

## Molecular Biology Services

At Pharmaron, we leverage our expertise in plasmid design and optimisation to support our customers' goals. Our team has extensive experience in the development of plasmid sequences used for viral vector production, and can pair this with the ability to perform microbial cell strain screening to generate optimised Research Seed Banks (RSB).



### Molecular Biology Capabilities

- Cloning of customer sequences into Pharmaron's in-house Gene of Interest (GOI) backbone plasmid, optimised for the production of AAV vectors
- Cell strain screening and selection
- Evaluation of cellular growth kinetics to maximise target expression
- Research Seed Bank (RSB) generation

**In need of High-Quality grade plasmids?**

Speak to us to learn how we can support the production of this plasmid grade



Laboratory Services



Chemistry, Manufacturing & Control



Clinical Development



Biologics & CGT

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