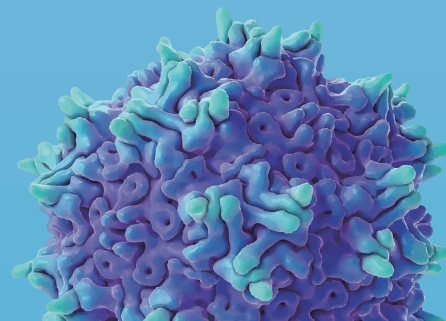


AAV Packaging Service

Fast delivery and superior quality to empower your research and development



PackGene's AAV packaging service offers a compelling value tailored to meet the diverse needs of researchers and biotech companies. Combining advanced technologies, extensive serotype selection, rapid turnaround, affordability, and reliability, we support your AAV-based programs effectively. Partner with us to unlock the full potential of your research endeavors.



Superior Quality

Accurate titer, high purity, low empty shell, and consistency.



Rapid Turnaround Time

~2 weeks for AAV only
~4 weeks from gene to AAV



Proprietary High-yield Platform

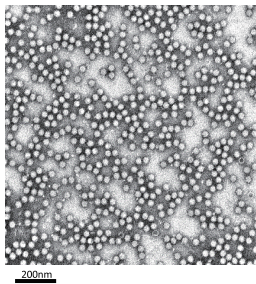
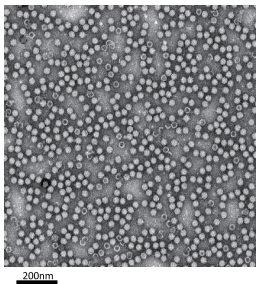
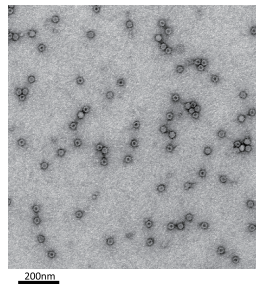
π -alpha technologies with high-yield production cell line, modified plasmid and more



Extensive Serotype Selection

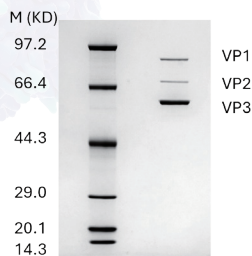
Nearly 100 serotypes available

Different grades to suite your needs from early research to IND enabling study

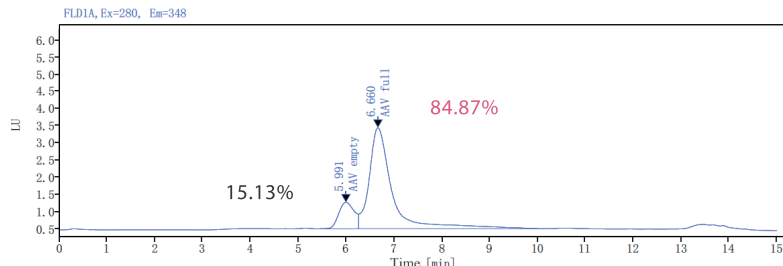
PackGene AAV Packaging Service			
	Research Grade	NHP Grade	HT Grade
Application	Cell culture, small animal	Small animal or non-human primates	Cell culture
Scale	2E+12 ~ 8E+14 GC	1E+13 ~ 1E+16 GC	2E+11 ~ 2E+13 GC
Lead time	Start from 12 business days	Start from 17 business days	7-14 business days
QC test	qPCR, SDS-PAGE Coomassie Blue Staining, endotoxin LAL, plasmid restriction enzyme digestion	ddPCR, SDS-PAGE Silver Staining, endotoxin LAL, plasmid restriction enzyme digestion	qPCR
Performance comparison			
Titration	qPCR, Titer meet requirements	dd PCR, Titer meet requirements	qPCR, Titer meet requirements
AAV purity analysis	SDS-PAGE, Coomassie Blue Staining, Capsid band size meet reference	SDS-PAGE, Silver Staining, Capsid band size meet reference, Capsid band size meet reference	-
Endotoxin Test	LAL, <10EU/mL	LAL, <1 EU/ml (endotoxin removal may reach <0.2 EU/ml)	-
Mycoplasma	-	qPCR, Negative	-
Bioburden	-	48 hr, no growth	-
AAV Genome integrity	-	Capillary Electrophoresis, report value	-
Empty Capsid	TEM, guaranteed empty capsid rate <30% for common serotypes	TEM, guaranteed empty capsid rate <20% for common serotypes	-
TEM images			

Research grade AAV: Superior Quality

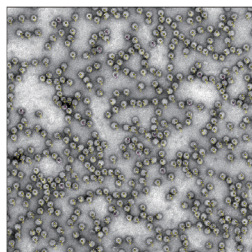
AAV purity analysis by SDS-PAGE



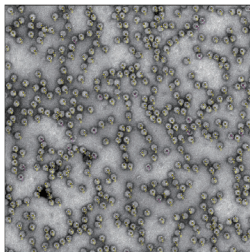
Empty capsid rate and purity by AEC-HPLC



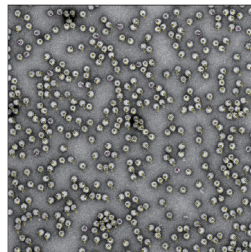
Empty capsid rate by TEM



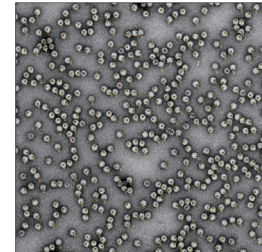
Full vs Empty: 449 vs 20
Empty Capsid Rate: 4.26%



Full vs Empty: 408 vs 30
Empty Capsid Rate: 5.37%



Full vs Empty: 401 vs 25
Empty Capsid Rate: 5.87%



Full vs Empty: 386 vs 24
Empty Capsid Rate: 5.85%

AAV Analytical Services

~40 off-the-shelf tests available

- Extensive Capabilities
- Timely Results

- Uncompromising Quality
- Safety Assurance

- Expert Guidance
- Tailored Solutions



Titration & Genome Integrity

- AAV Genome Titration -ddPCR
- AAV Capsid Titration Infectious Titer -TCID50
- AAV Genomic Integrity -CE
- AAV Genomic Sequencing -TGS
- AAV Identity by Sanger sequencing
- Alkaline Gel Electrophoresis



Capsid characterization, purity, aggregation

- AAV Empty Capsid Rate -AUC
- TEM (5 pictures) +report
- DLS (Dynamic light scattering)
- AAV Capsid Peptide Mapping
- Capsid Protein Molecular Weight and Ratio
- Capsid purity Analysis -SDS-PAGE
- Capsid purity Analysis -CE-SDS
- Purity Analysis -AEC-HPLC
- Purity and Aggregation Analysis -SEC-HPLC



Contamination

- Residual Host HEK293 Cell DNA Quantification
- Residual HEK293 Host Cell DNA
- Residual Plasmid DNA
- Residual E1A
- Residual Host Cell Protein
- Residual BSA
- Residual Nuclease
- Residual Affinity Ligands
- Residual PEI
- Residual Tween20
- Residual Triton X100
- Residual Iodixanol
- Residual Poloxamer 188
- Residual Triton Analysis



Safety

- Endotoxin removal
- Sterility test
- Mycoplasma detection
- Endotoxin test
- Quantitative Endotoxin test
- Bioburden Test
- Mycoplasma detection by qPCR
- Replication Competent AAV (rcAAV) Analysis



Speak to our Ph.D. level technical support **TODAY!**

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1-713-913-6961

info@packgene.com