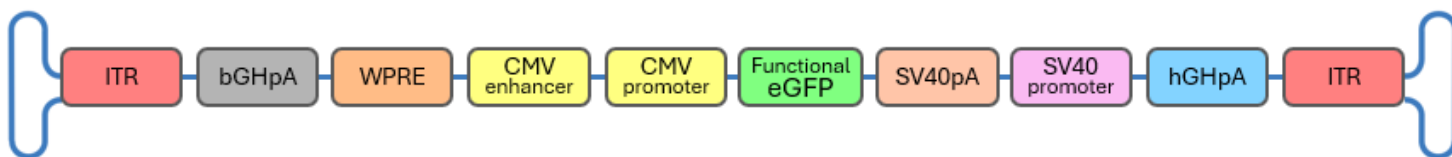


Universal AAV Standard (UAS)



Multi-Target AAV Analytical Reference Standard

Designed to support multiplex AAV genome titer and genomic integrity assessment across analytical workflows.



UAS is a multi-target analytical reference standard designed for recombinant AAV workflows. By incorporating multiple representative genomic target regions within a single construct, UAS supports multiplex AAV genome titer assessment, target-to-target consistency evaluation, and genomic integrity analysis across analytical platforms, laboratories, workflows, and AAV products.

Industry Challenge

Current AAV analytical workflows often rely on multiple limited-target reference controls. As genome integrity becomes an increasingly important critical quality attribute (CQA), there is growing demand reference materials that support multiplex workflows, improved cross-laboratory consistency, and broader analytical standardization across the AAV industry.

Cross-Laboratory Evaluation

Independent analytical studies using the same AAV8 material generated highly similar multi-target analytical trends despite non-identical laboratory workflows, supporting the utility of UAS for improved analytical consistency and cross-laboratory comparability.

UAS Key Capabilities



Multi-Target Reference Architecture

Incorporates multiple representative AAV genomic target regions within a single analytical reference standard.



Multiplex Workflow Support

Designed to facilitate multiplex digital PCR analytical workflows for AAV genome characterization.



Genome Integrity Assessment

Supports evaluation of target-to-target consistency and assessment of partial or structurally rearranged genomes.



Cross-Laboratory Comparability

Supports improved analytical consistency and comparability across laboratories and workflows.

Why UAS?

Conventional Controls	Universal AAV Standard
Limited target coverage	Multi-target architecture
Multiple controls required	Flexible analytical reference framework
Limited genome integrity assessment capability	Supports multiplex genome integrity assessment
Workflow-specific qualification	Enables target-to-target consistency evaluation
Limited cross-workflow comparability	Improved consistency across laboratories, workflows, and AAV products.

Intellectual Property

U.S. Patent Application No. 18/649,859
"A Recombinant Adeno-Associated Virus (rAAV) Universal Reference Standard for Determining rAAV Genome Copy Titer by Quantitative PCR" Filed April 29, 2024.

Current Collaborative Activities

- Duplex dPCR evaluation
- Multiplex dPCR evaluation
- Titer and genome integrity assessment
- Presented at ASGCT 2025

Universal AAV Standard (UAS) material and related intellectual property are owned by Agathos Biologics and used in collaborative evaluation activities with permission.



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