

IsoTag™ AAV

Scalable, chromatography-free purification
with high purity and yield in under 4 hours

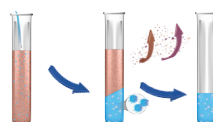
Bioprocessing Reimagined

IsoTag™ AAV is a specialized reagent, engineered for the challenging requirements of small and large-scale manufacturing. It enables a robust, efficient, and consistent downstream purification process for a broad spectrum of adeno-associated virus (AAV) serotypes.

Combining the principles of affinity capture with liquid-liquid phase separation, IsoTag AAV is designed to:

- + Accelerate research and development
- + Reduce costs and challenges associated with scaling from clinical to commercial
- + Improve global access to life-changing vaccines and advanced therapeutics

Centrifugation-based concentration



Volume

1 mL – 1 L

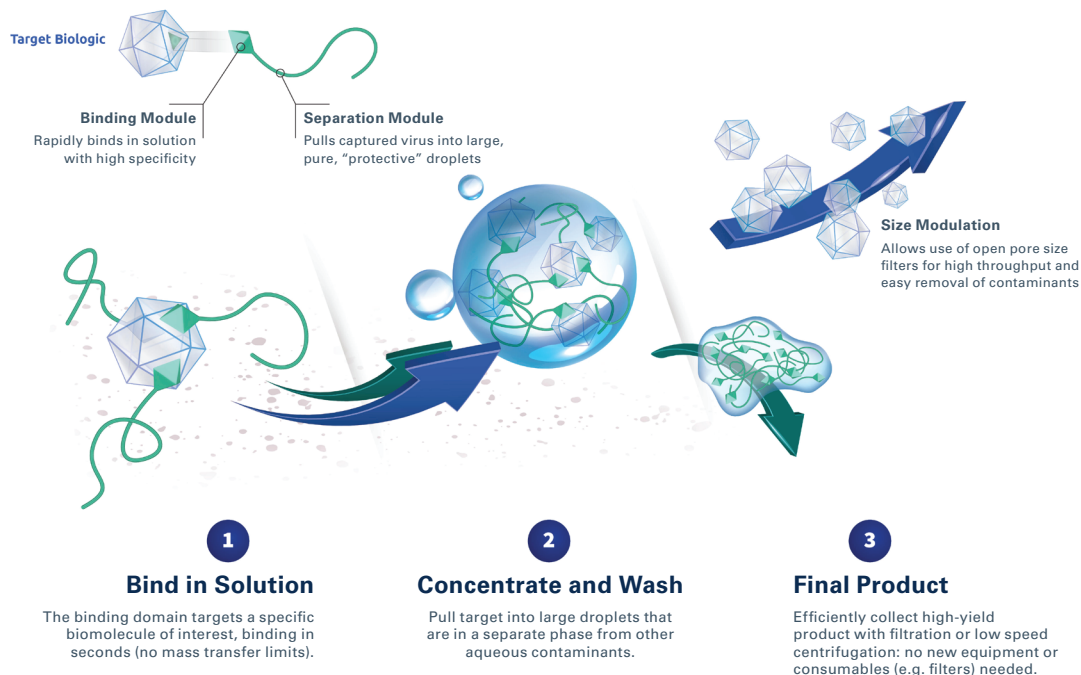
Affinity liquid phase separation via tangential flow filtration (TFF)



Volume

>1 L

Affinity Liquid Phase Separation (ALPS)



>4 LRV HCD & HCP

>50x concentration by TFF

60-85%

AAV9 baseline yield performance

99%

Purity by CE-SDS; <3% aggregates

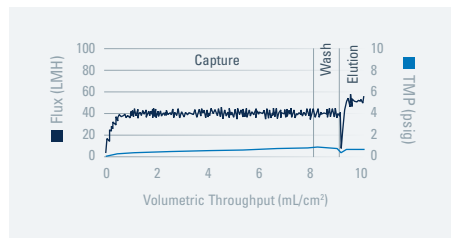
<4 hr

Process time with linear scalability

Advantages of IsoTag AAV

+ Scalability

The affinity liquid phase separation TFF process (ALPS-TFF) scales linearly by increasing filter surface area as harvest volume increases.



+ Speed

IsoTag AAV utilizes a microfiltration hollow fiber and, as such, is run in permeate control mode to maintain a constant flux throughout the process. This allows completion of the process in under four hours regardless of scale.

+ Versatility

Binding efficacy observed with small-scale capture tests with AAV 9, 8, 6, 2, 1, PHP.B, Rh5.10. For more information, visit isolerebio.com/aavpaper.

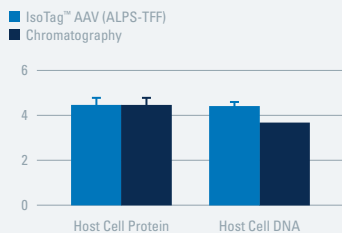
+ Compatibility

IsoTag reagents are paired with platform processes that use existing equipment and off-the-shelf consumables to achieve high purity and yield in hours.

+ Quality

IsoTag AAV delivers >4 log removal of contaminating host cell proteins and DNA and thus is a process that can be relied on to meet AAV formulation specifications.

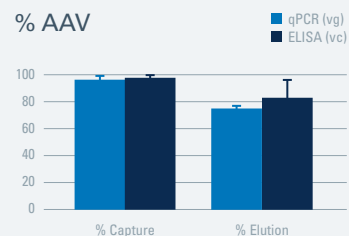
Log Reduction Value



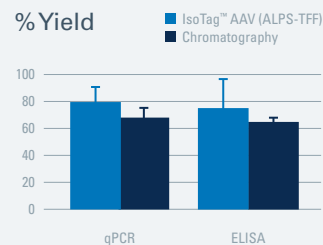
+ Yield

In three different scale runs by qPCR and capsid ELISA, IsoTag AAV achieved >98% capture at all scales and averaged 75% elution of both total virus capsids and viral genomes.

% AAV



% Yield



Interested in IsoTag solutions for lentivirus, adenovirus, nucleic acids, or other custom projects?

Contact us at isolereinfo@donaldson.com



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