

# IsoTag™ AAV

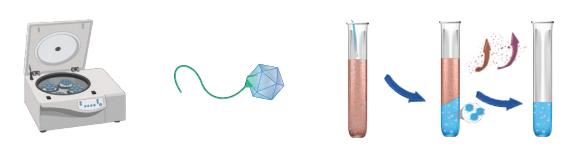
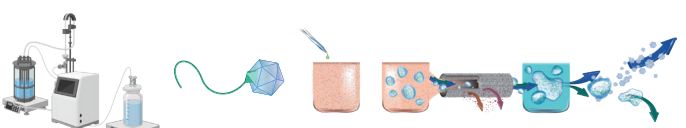
Scalable, chromatography-free purification with high purity and yield in under 4 hours

## Bioprocessing Reimagined

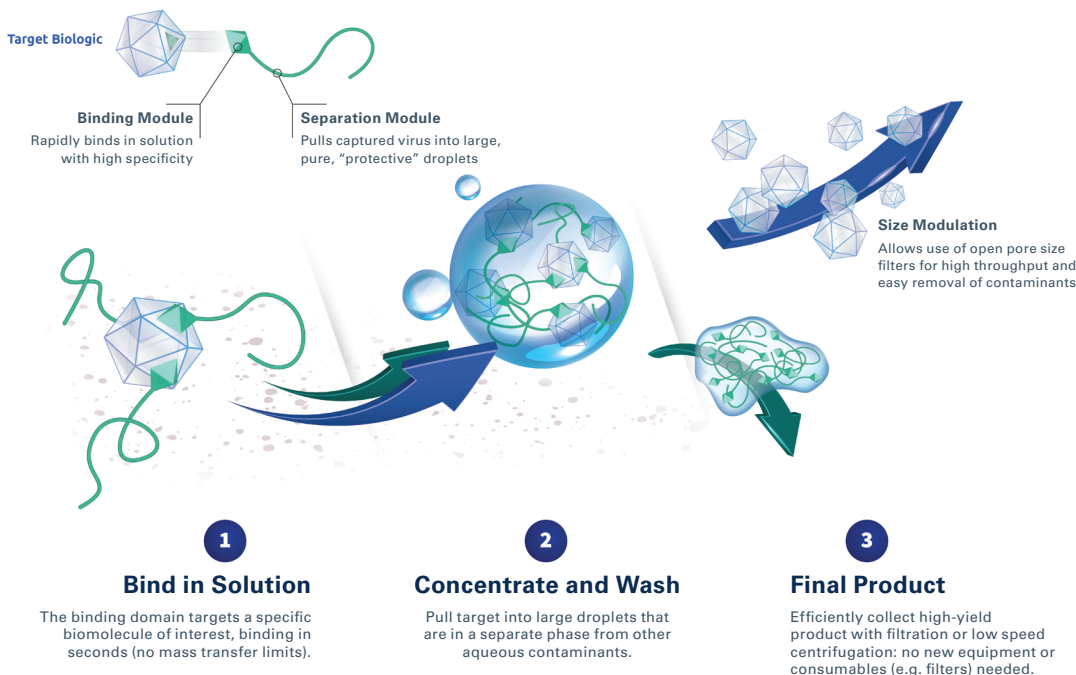
IsoTag™ AAV is a specialized reagent, engineered for the challenging requirements of small and large-scale manufacturing. It enables a robust, efficient, and consistent downstream purification process for a broad spectrum of adeno-associated virus (AAV) serotypes.

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

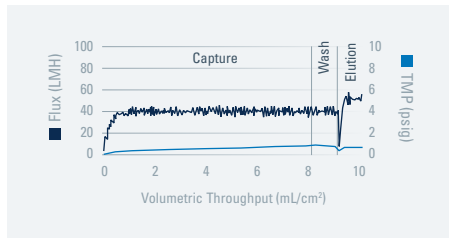
<4 hr

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

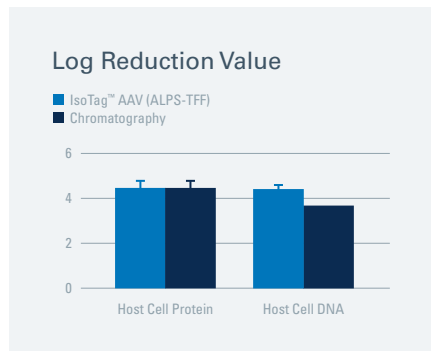
Binding efficacy observed with small-scale capture tests with AAV 9, 8, 6, 2, 1, PHP.B, Rhs.10. For more information, visit [isolerebio.com/aavpaper](http://isolerebio.com/aavpaper).

## + 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.

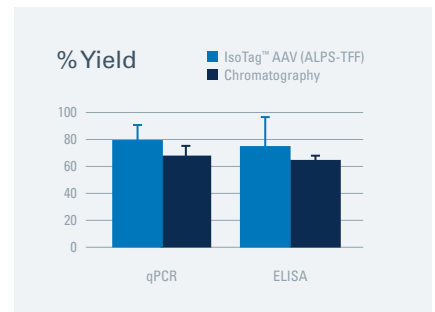
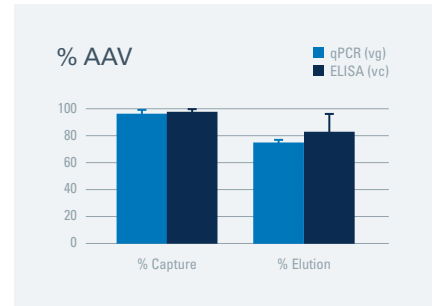
## + Quality

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.



## + 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.



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

Contact us at [isolereinfo@donaldson.com](mailto:isolereinfo@donaldson.com)



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Durham, North Carolina, USA



Isolere Bio delivers manufacturing solutions, accelerates therapeutic development, harmonizes commercial scaling, and improves global access to life-changing medicines and vaccines. For more information, visit us at [isolerebio.com/faqs](http://isolerebio.com/faqs)

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