

AAV•Tek™

AEX Buffer Screening Kits for AAV2, AAV6, and AAV8

A first-of-its-kind solution that addresses a key challenge for gene therapy manufacturing by identifying the optimal buffer for the removal of empty capsids while maintaining high yields.

Through extensive screening, we created a unique kit that can help you identify the ideal buffer formulation for the separation of empty and full capsids, saving months in your process development at the polishing step.

Each serotype-specific kit contains paired sets of optimized equilibration and elution buffers in 1 L bottles. These discrete formulations have been proven to be effective across multiple upstream and purification platforms.



AAV polishing, **simplified**

Save months of development time

When you are building a new process, it requires a significant investment to find the right reagents to use across your workflow. Our kit accelerates this process, saving you weeks of trial and error so you can make better use of your time and resources.

Optimize capsid separation

Effectively separate empty and full capsids. Our rigorous testing and batch-to-batch consistency help you get results you can trust. The kit has been verified for use on multiple upstream workflows, transgenes, and downstream purification platforms.

Seamless scale-up from RUO to GMP

Our scientists and engineers have the expertise to guide you through the end-to-end buffer screening process. Once you find the ideal fit for your system, we can help make further customizations and set you up with a reliable supply of your unique formulation.

AAV•Tek AEX Buffer Screening Kit: AAV2
Catalog Number: 20702
Order your kit at www.teknova.com/AAV2

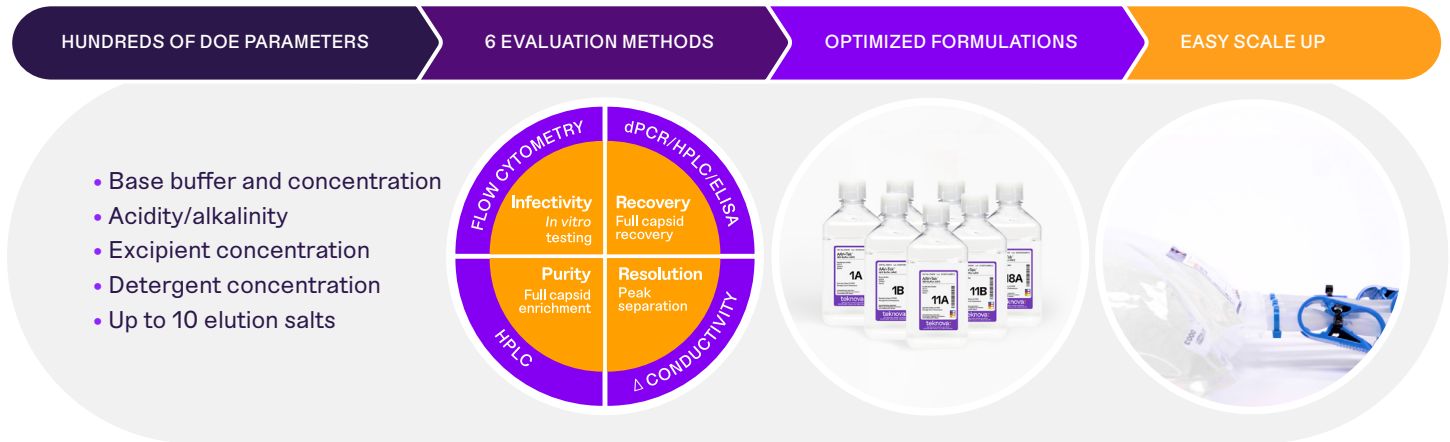
AAV•Tek AEX Buffer Screening Kit: AAV6
Catalog Number: 21235
Order your kit at www.teknova.com/AAV6

AAV•Tek AEX Buffer Screening Kit: AAV8
Catalog Number: 20780
Order your kit at www.teknova.com/AAV8

Our Approach

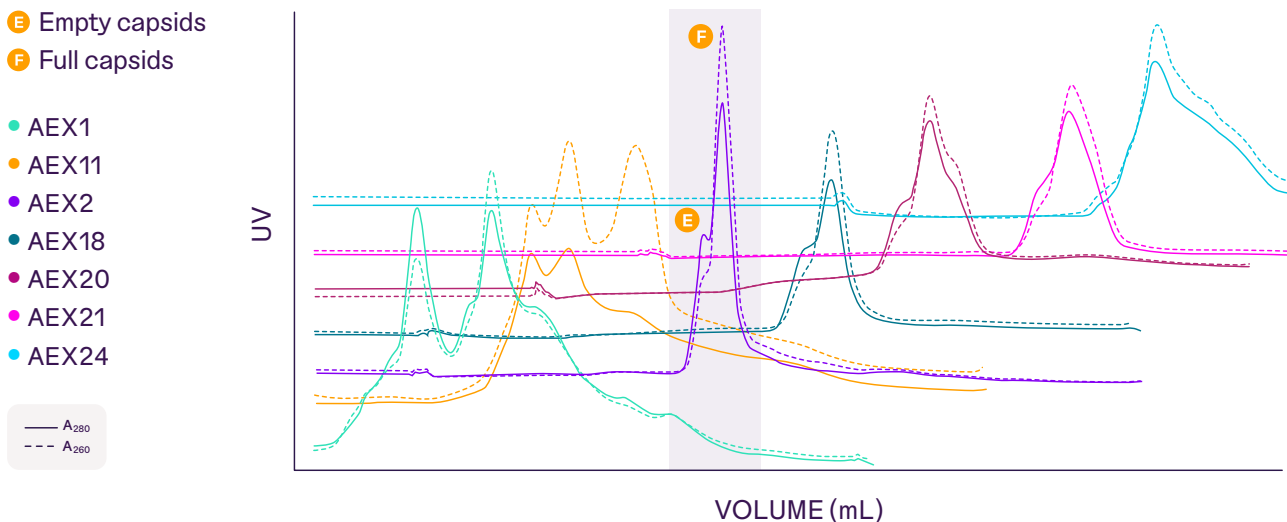
To identify serotype-specific buffer formulations, we utilized a Design of Experiments (DOE) approach to define the most impactful attributes for the polishing step of your AAV purification process. These optimized buffers are designed to effectively remove empty capsids while maintaining maximum recovery and infectivity.

The process parameters evaluated for AAV full capsid enrichment include a full range of pH, elution salts, excipients, surfactants, and stabilizers/osmolytes. The DOE was executed to elucidate the extent of each contributing factor.

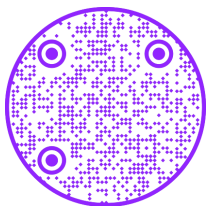


Buffer optimization through DOE implementation

Sample data for AAV2



→ SEE THE DATA



Scan the QR code to see our detailed findings in the following areas:

- Buffer optimization through DOE implementation
- Multiple transgene sequences
- Multiple AEX purification platforms
- Upstream platforms
- Downstream platforms
- Preparation for scale-up

From screening to **scale-up**

After using the AEX Buffer Screening Kit to select the buffers that best fits your specific application, our team will help refine the formulations and assist in scaling with GMP-compliant manufacturing.

www.teknova.com/AEX_Kit