



## Size Exclusion Separation of Adeno-Associated Virus (AAV)

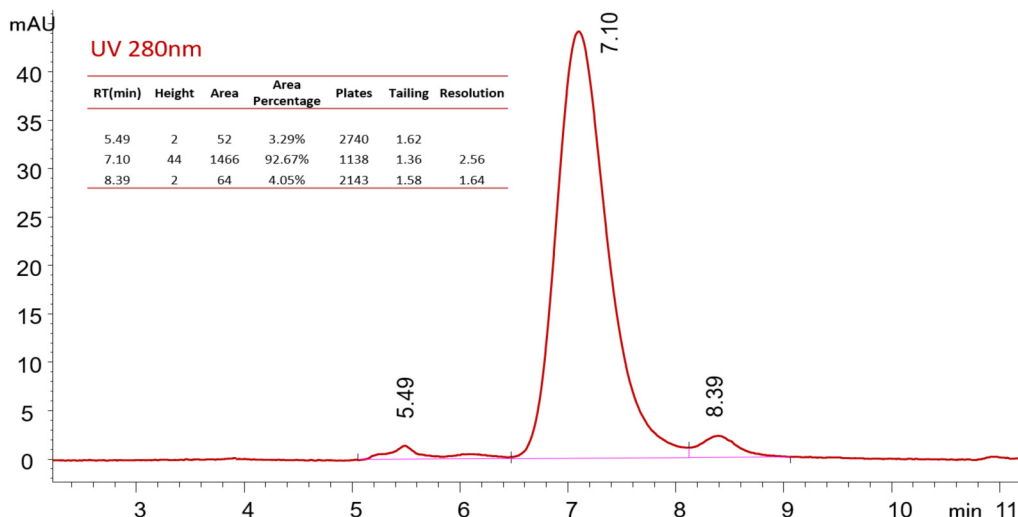
on **Sepax SRT 5  $\mu\text{m}$  500 $\text{\AA}$  SEC**

AAV has been employed for various gene therapy delivery systems, with differing tropisms in AAV serotypes for targeted tissues. Size Exclusion (SEC-HPLC) can be applied to study AAV particle quality during purification process and product lot to lot evaluation.

- Sepax SRT SEC offers high resolution separation of inter-particle aggregates, intact AAV, and fragments.
- The Adeno-Associated Virus analyzed in application ([SV1007](#)) is a AAV5 sample with a hydrodynamic size of 20 nm, in DPBS with 0.001% F68
- Due to its relative small size at 20 nm, 500  $\text{\AA}$  SEC is most suitable for intact AAV particle separation and size characterization.

## Adeno-Associated Virus (AAV5)

on **SEPAX SRT SEC-500**



**Column:** Sepax SRT SEC-500, 5 $\mu\text{m}$ , 500  $\text{\AA}$ , 7.8 $\times$ 300mm (P/N: [215500-7830](#)); **Mobile Phase:** 2.0X DPBS pH 7.5; **Flow rate:** 1 mL/min; **System:** HPLC; **Column Temperature:** 25  $^{\circ}\text{C}$ ; **Detection:** UV 280 nm; **Sample:** AAV5 2.22 $\times$ 10<sup>13</sup>GC/mL in DPBS with 0.001% F68; **Injection volume:** 50  $\mu\text{L}$

Full Application Data: UV detection and different SEC pore size screening

## Order Info

Sepax SRT SEC-500, 5 $\mu$ m, 500 Å, 7.8 × 300mm (P/N: **215500-7830**)

Sepax SRT SEC-500, 5 $\mu$ m, 500 Å, 4.6 × 300mm (P/N: **215500-4630**)

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A selection of different column dimensions (4.6, 7.8, 10, 21.1, 30, 50 mm ID) in both 5 and 10  $\mu$ m particle sizes allows for seamless scalability from high resolution analytical characterization to fast preparative purification.

Sepax SRT SEC also has 1,000 and 2,000 larger pore sizes available for larger bio-molecule applications.



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