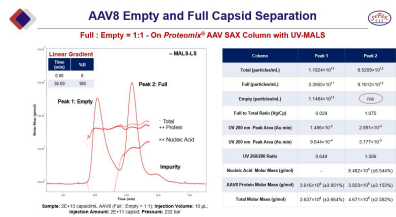
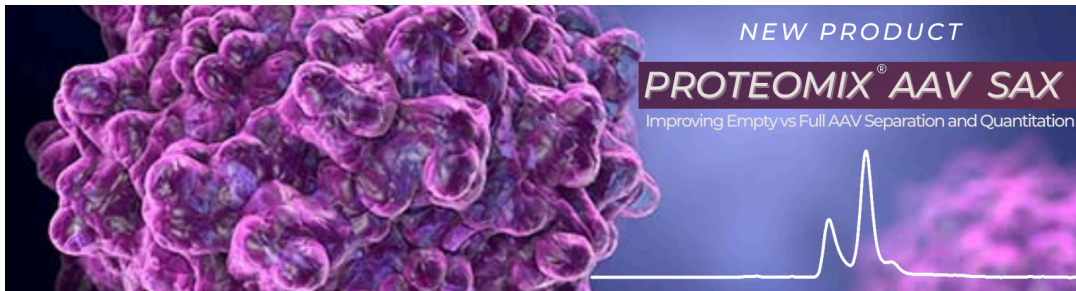




Sepax Technologies

Better Surface Chemistry for Better Separation



IEX-MALS Quantitative Method for Empty and Full AAV Capsids Separation by Proteomix® AAV SAX

Low Shedding/ Reproducible/ High Resolution with New Generation SAX Phase from Sepax

In this white paper, Sepax discussed an ion-exchange chromatography coupled to multi-angle light scattering (IEX-MALS) method by using a new Proteomix® AAV SAX column. This fast and quantitative technique enables comprehensive characterization of empty and full AAVs including capsid titer, full-to-total ratio, and absolute molar mass of the protein and nucleic acid. A simple universal linear salt gradient method was applied which can be easily further optimized, including adapting to a step gradient when necessary.

This method overcomes the challenges of existing IEX products and methods which often lack quantitative measurement to demonstrate the full separation of empty and full AAV capsids. It also addresses the shortcomings of other analytical methods, such as AUC, which involve labor-intensive and time-consuming processes.

Sepax has developed a new proprietary SAX chemistry specifically designed for the full separation of empty and full AAV capsids. The mechanical and chemical properties of this innovative product enable low shed, unique selectivity, and rapid kinetics. An AAV8 standard with UV-MALS detection is used in the resin batch quality control process and batch release to ensure minimal noise interference and excellent lot-to-lot consistency for high accuracy in molecular weight calculations and precise analysis. It is important to note that the product is scalable to preparative size allowing fraction enrichment for further studies.

Technical White Paper

Product and Order Info

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