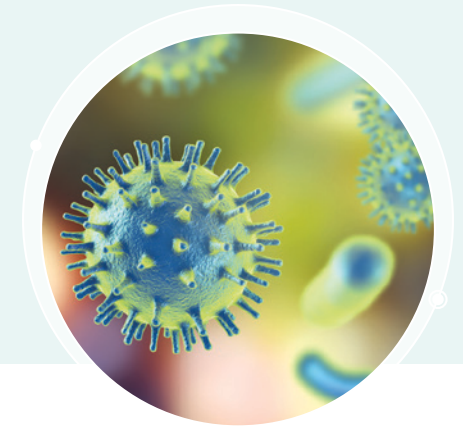


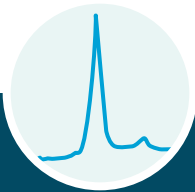
# Robust, Flexible Solutions for Cell and Gene Therapy

## Easily Analyze Viral Vectors and Nucleic Acids

With robust SCIEX CE solutions for cell and gene therapy, you can observe changes in process development, and easily access final product quality by monitoring multiple attributes on a single system.



## SCIEX Cell and Gene Therapy Solutions



### EMPTY/FULL AAV PARTICLES

SCIEX is currently developing novel CE-based separations of AAV capsids with differential transgene payloads. We are partnering with customers to develop custom methods for different AAV serotypes and sample formulations. CE, CZE and cIEF technology can allow for high sensitivity and significant separation of AAV sample components.



### CAPSID PROTEINS

Viral vectors are routinely utilized as a gene therapy delivery vehicle, with the quality of capsid proteins integral to the safety and effectiveness of this product. SCIEX CE-SDS solutions assess size, purity, and capsid protein ratios. CZE and cIEF assays can easily evaluate the purity of the entire complex.



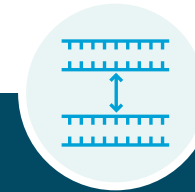
### NUCLEIC ACID & PLASMID ANALYSIS

SCIEX offers multiple kit-based chemistries to assess the quality and impurities of nucleic acids through the use of ultrasensitive fluorescence detection. The ssDNA-R kit separates up to 100 base oligomers with single base resolution, while the dsDNA 1000 kit analyzes both linear ds nucleic acid up to 15,000 base as well as plasmid topology.



### NUCLEIC ACID SEQUENCING

SCIEX dye terminator CE-based sequencing provides accurate, unambiguous and cost-effective sequencing of gene targets including: transgenes; verification of CRISPR sequence; analysis of human short tandem repeats or repetitive regions; and identification of insertion/deletions fragments.



### SNP ANALYSIS

SCIEX's multiplex Single Based Extension (SBE) SNP starter kits multiplex up to 10 SNPs in a single reaction. This easy-to-use kit offers high accuracy and reproducibility by utilizing 4 different labeled ddNTPs for each target alleles.



### GENE EXPRESSION PROFILING

SCIEX's multiplex XP-PCR gene expression profiling assay allows your lab to identify and quantify target of interest mRNA quickly. The assay offers improved precision and specificity, compared to qPCR, for monitoring gene expression with the ability to analyze up to 30 gene targets (including housekeeping genes) in a single reaction.

**Get started today** – SCIEX offers comprehensive analytical systems and reagents for both protein and nucleic acid analysis. Contact your local rep or visit us at <https://sciex.com/about-us/contact-us> for more information.



The Power of Precision

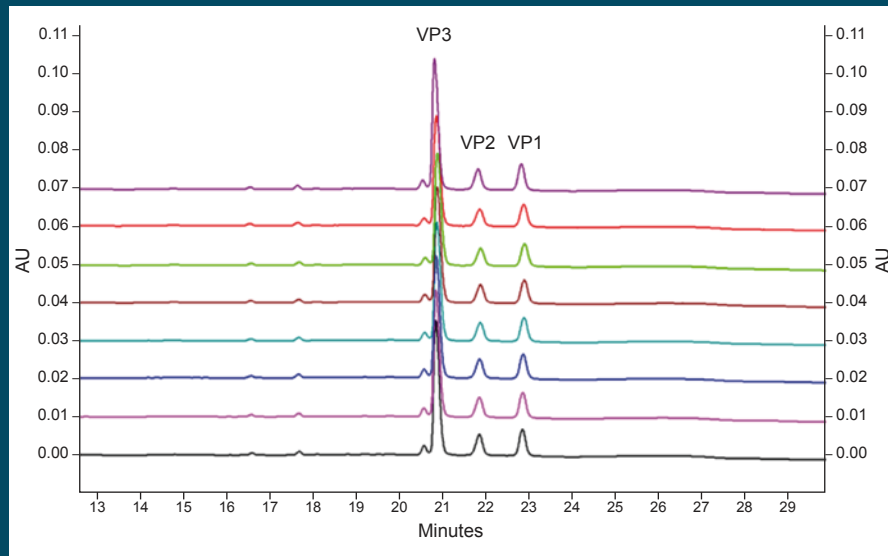
# Solutions for AAV Analyses of your Gene Therapeutics

## Easily Analyze Viral Vectors and Nucleic Acids

The pressure for developing innovative gene therapeutics to benefit patients worldwide is on. So is the need to analyze these products during research, development, and manufacturing. Here we present solutions for both viral protein purity and full/empty capsid analyses.

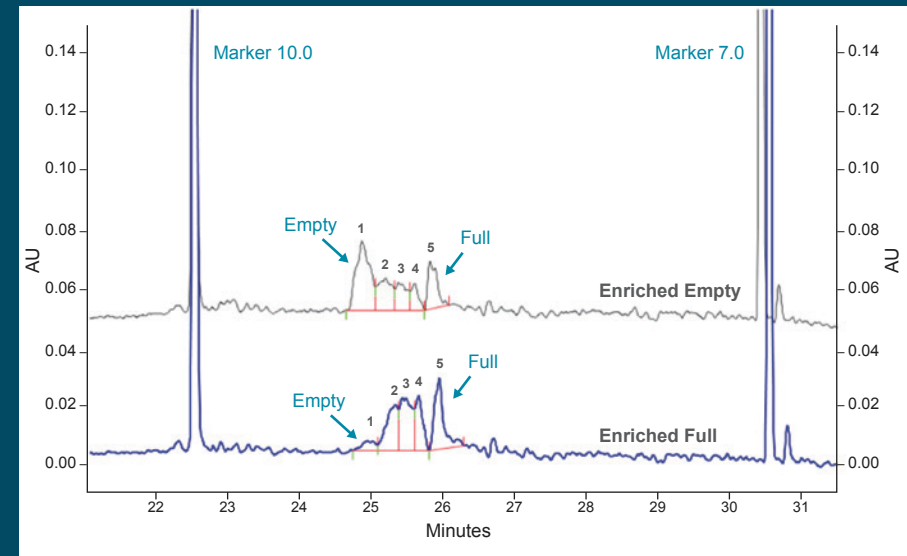


### Purity analysis of AAV capsid viral protein



SCIEX provides baseline separation and quantitative analysis of viral proteins of AAV capsids with a ready-made SDS-MW kit with good reproducibility and excellent linearity. The method can be used for AAV sample analysis from the process development to manufacturing with product tier ranging from  $10^{10}$  to  $10^{14}$  GC/mL.

### AAV Full and Empty analysis by cIEF



SCIEX is currently developing novel CE based separations of AAV capsid with differential transgene payload. SCIEX is partnering with customers to develop custom methods for different AAV serotypes and sample formulations. CE CZE and cIEF technology can allow for high sensitivity and significant separation of AAV sample components.

**Get started today** – SCIEX offers comprehensive analytical systems and reagents for both protein and nucleic acid analysis. Contact your local rep or visit us at <https://sciex.com/about-us/contact-us> for more information.



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