

Eden Biodesign Ltd gave a poster presentation titled "Rapid analysis of adenoviruses with prototype CIM® QA analytical columns to support the development of high titre manufacturing platform" on 23-25 September at BioProcess International 2008, Anaheim, CA.

Suzy Battom, Karolin Lindström and Robert Whitfield from Eden Biodesign, tested a prototype method for analysing and measuring the number of adenovirus particles present in solutions containing contaminating proteins, DNA and broken down cells (cell lysate).

Adenoviruses are the most commonly used method of transporting genetic material into human cells, and are being used for clinical applications, such as suicide gene therapy, gene based immunotherapy, gene replacement strategies and vaccines. Developing a process to purify adenoviruses is reliant on analytical methods that can be applied throughout the process, from solutions containing cell lysate to the purified mixture.

The team found that the prototype CIM® QA analytical HPLC (Convective Interaction Media High Pressure Liquid Chromatography; BIA Separations) column can potentially separate and quantify preparations containing type 5 adenoviruses with high levels of sensitivity in a cell lysate or purified mixture. Their results were accurate and repeatable, and a method was developed to improve the column performance.

The team are now working on further improving the column's ability to separate the adenovirus from contaminating DNA and protein.

For more details on this or how Eden Biodesign can help accelerate your product development contact Phil Ball PhD, Analytical Development Manager, +44 151 728 1750 or email philip.ball@edenbiodesign.com