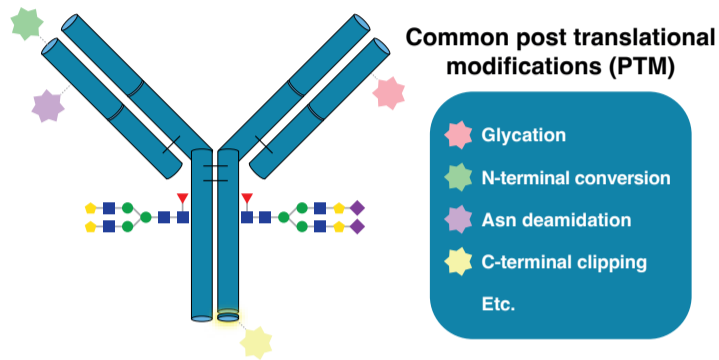


Current analytical challenges in cell line development

Development Goal

Develop robust cell lines capable of producing the desired therapeutic product with optimal characteristics and minimal impurities.

Characterization of a protein's charge profile using intact PTM analysis is required to make informed decisions for clone selection and cell line development.



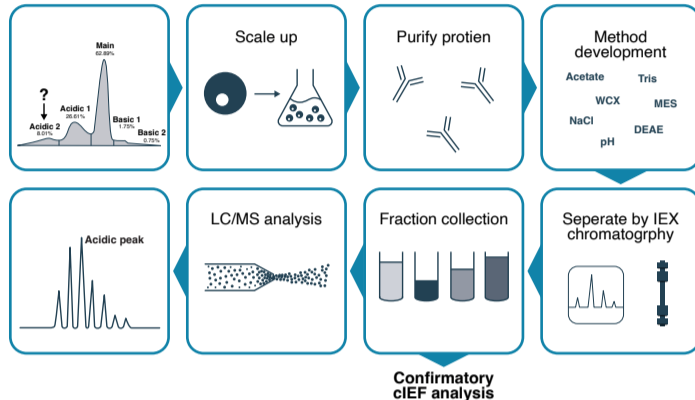
Current Analysis Bottlenecks

Time-consuming: Method development to determine the identity of the acidic peak using current icIEF UV/MS workflows can take weeks to months.

Multiple assays: Multiple instruments are required, involving multiple manual steps.

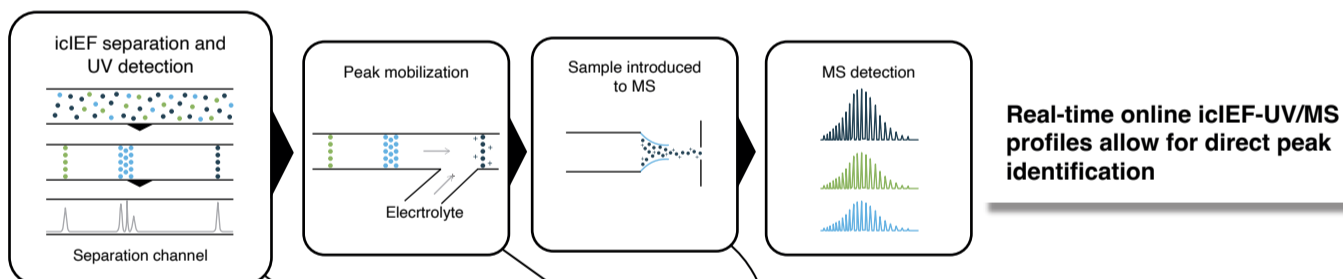
Complex analysis: Many pieces of data, lengthy analysis time.

Conventional IEX Workflow

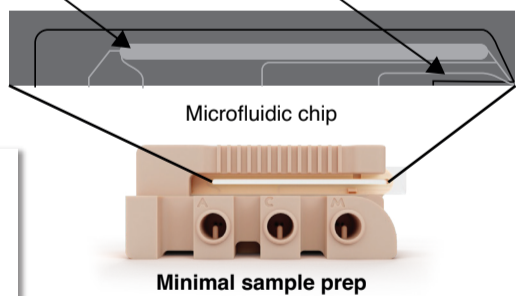


The Intabio ZT system is a novel approach to charge variant analysis

The **Intabio ZT system** is redefining PTM analysis by seamlessly integrating icIEF separation and UV detection with high-resolution mass spectrometry on the ZenoTOF 7600 system, all within a single platform.

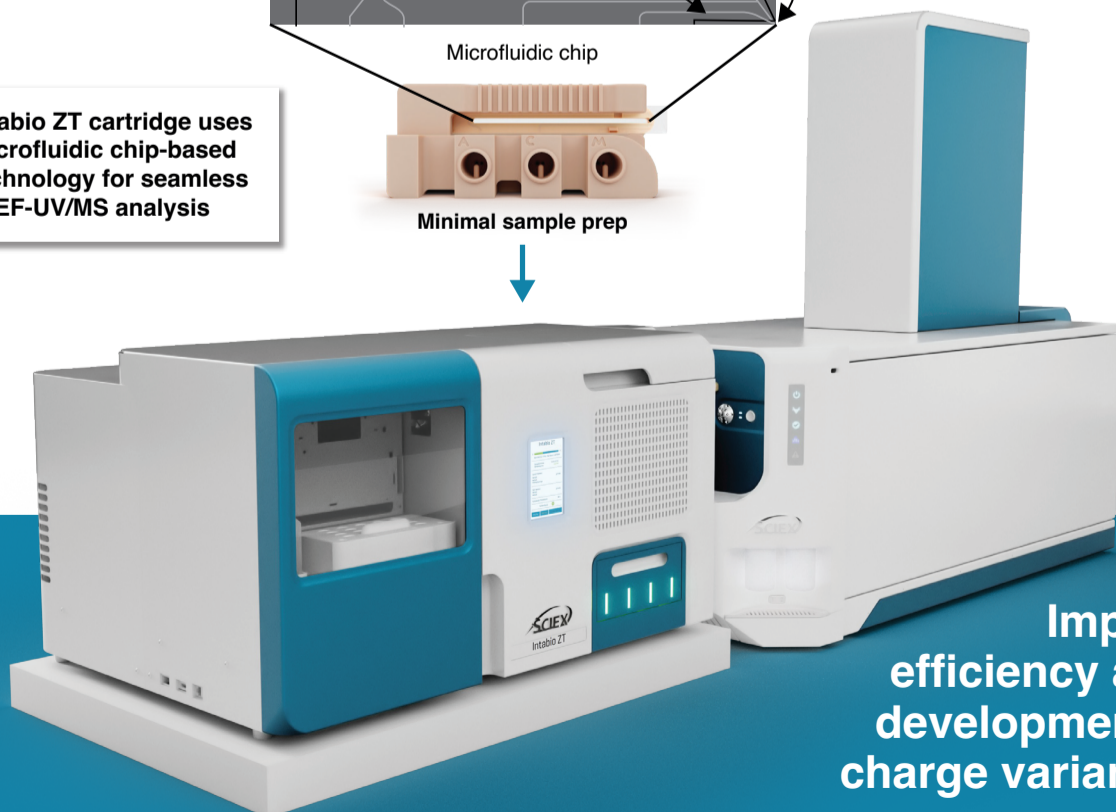


Intabio ZT cartridge uses microfluidic chip-based technology for seamless icIEF-UV/MS analysis



Comprehensive charge variant characterization in ~30 minutes:

- Isoelectric point
- PTM identification
- Sequence variants
- Product related impurities



Improve biopharma efficiency and reduce drug development timelines with charge variant ID in less time