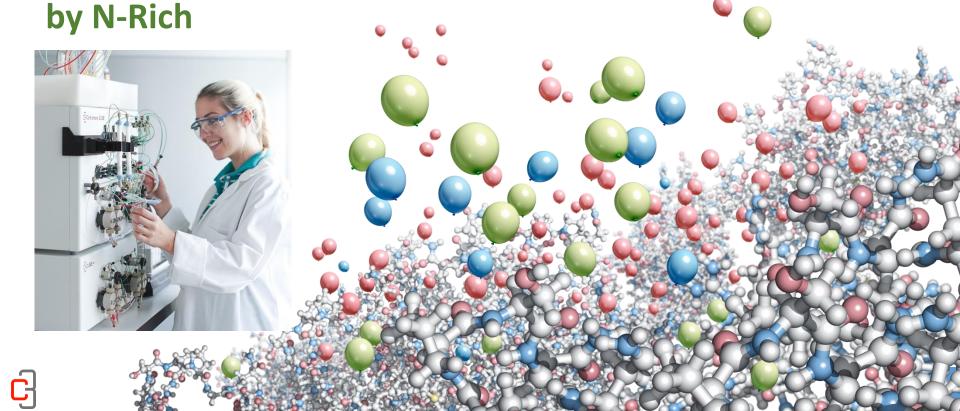
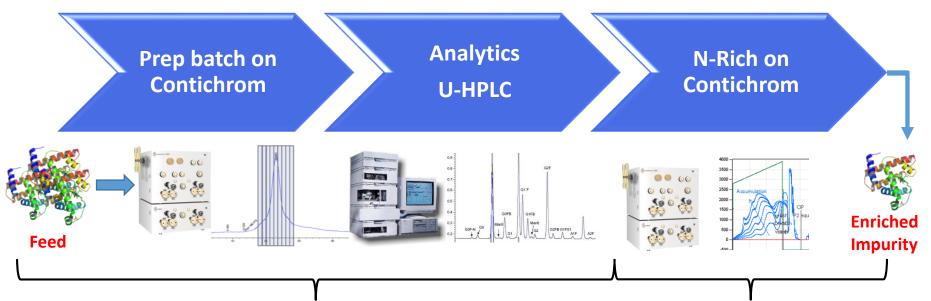


Contichrom® Twin-column FPLC Chromatography

Enrichment of a product-related compounds



N-Rich® side compound enrichment and isolation



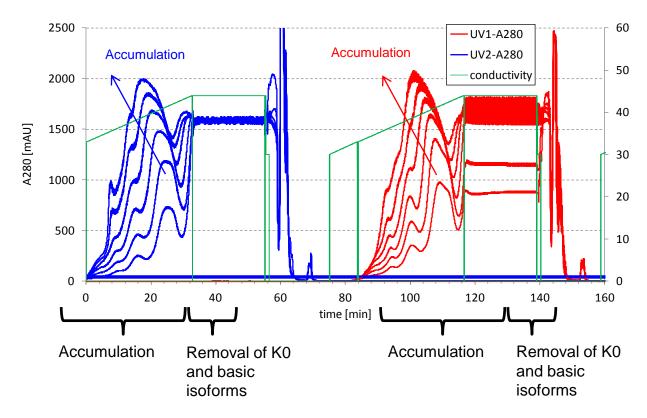
STEP 1: Doing it once, Preparation for N-Rich®

- Avoid running multiple HPLC runs and tedious collection of fractions to isolate sufficient material.
- N-Rich® single run to enrich biosimilar or biologics isoforms AND deplete undesired main component overnight
- Save weeks of tedious repetitive work
- Preserve integrity of isolated impurity

STEP2: Automatic overnight execution of N-Rich® to enrich side compounds

Biosimilar mAb isoform isolation using N-Rich®

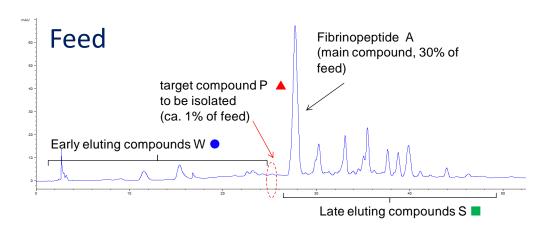
- Complying to ICHQ3A (B2) requirements for impurity characterization
- N-Rich process for isolation of acidic mAb isoforms
- Cycle overlay shows enrichment of acidic isoforms

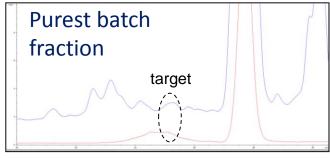




N-Rich® Case Study: isolation of peptide impurities

 Task: Isolate product-related impurities from Fibrinopeptide A produced by chemical synthesis

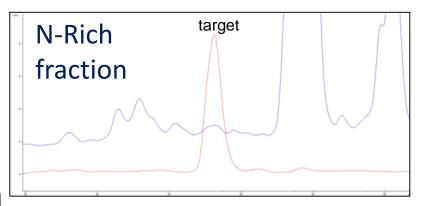




Results:

Process	Purity	Conc. factor	Enrich- ment factor *
N-Rich®	> 80%	10x	> 600x
Batch	< 20%	1x	n.a. **

^{*} with respect to main compound



^{**} not available, purity too low

Contact Info



