

## KEY FEATURES

- Compact design
- High correlation with HPLC
- At-line and on-line capability
- No HPLC expertise or method development needed
- Sample flow path is completely contained
- Manual or Autosampler compatible
- Plug-and-play consumables
- Low maintenance instrument



## BENEFITS

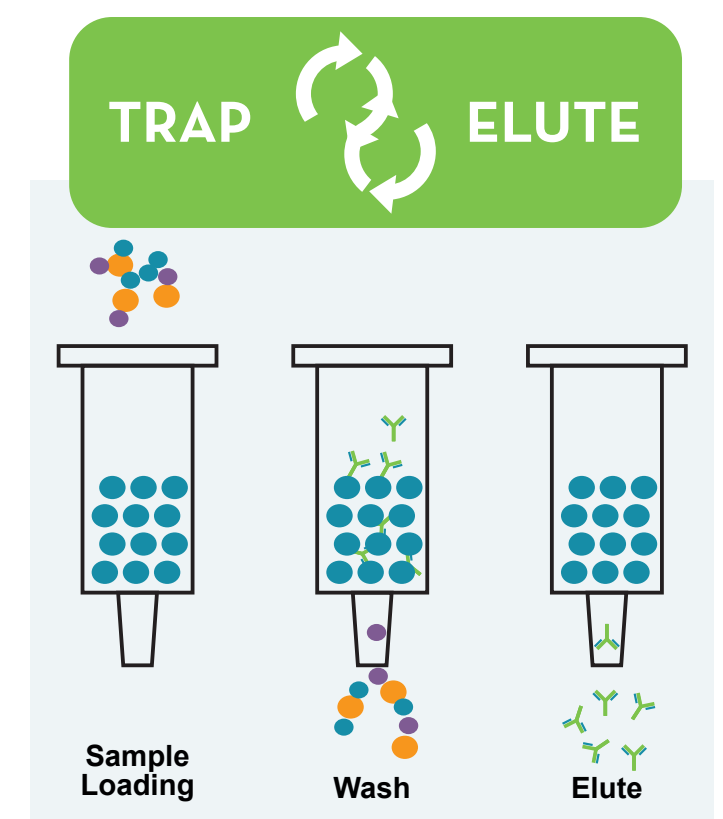
- Enables frequent & routine titer measurements
- No sample dilution needed
- Harvest on time
- Save time & money
- Stable calibration curves
- Make critical decisions faster during process development and manufacturing

## Chromatography without Complexity

Real-Time Protein Titer Measurements in 5 Minutes



- Cell-free sample from bioreactor
- Antibodies bind to Protein A resin, while other materials flow through to waste
- Antibodies are eluted with reagent B and quantified by HaLCon (OD280)

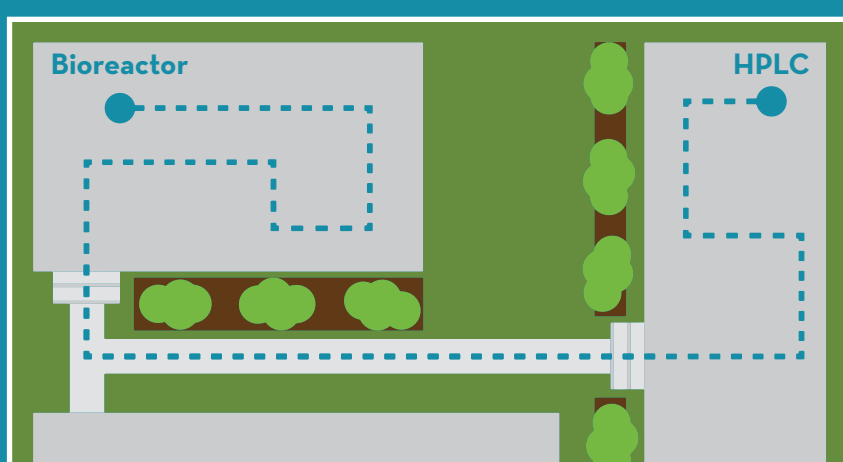


## HaLCon in Action

Streamlining CDMO Processes for Biologics Development and Manufacturing

### CHALLENGES

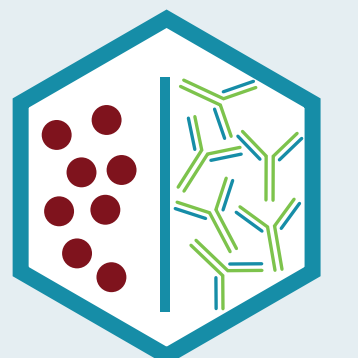
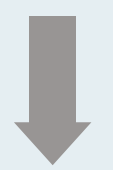
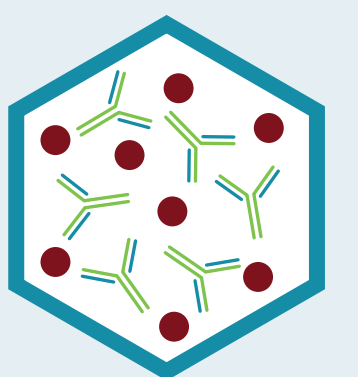
- QC turnaround time 24+ hours
- Retrospective data only
- Multiple projects with differing impacts on titer production
- Different and/or new molecules requiring individual HPLC calibration
- Off-line HPLC bottlenecks:



### HaLCon SOLUTIONS

- ✓ Reduce delays in moving batch to downstream purification
- ✓ Trend monitoring during process development & optimization (DOE)
- ✓ Wide dynamic range of 0.1 - 10 g/L
- ✓ Generic calibration curve can be applied to different molecules with standard Fc regions
- ✓ At-line monitoring of product concentration to optimize bioreactor use
- ✓ Rapidly identify adverse conditions enabling real-time corrective action

UPSTREAM



DOWNSTREAM



ACCURATE



REAL-TIME



COST EFFECTIVE



FAST