



The First Purpose-built Solution for Bioprocess Real-time Protein Titer Monitoring

Chromatography
Without Complexity



REDSHIFT[↑]**Bio**®

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HaLCon Protein Titer Technology

- Protein A liquid chromatography
- Matches off-line HPLC
- Sample-to-answer in under five minutes
- Streamlined operation for ease-of-use
- No chromatography expertise required
- Compact design
- Minimal maintenance
- Sample flow path is completely contained
- Can integrate with automated sampling systems
- Network capable
- 21 CFR part 11 Compliant

Protein Titters On Demand

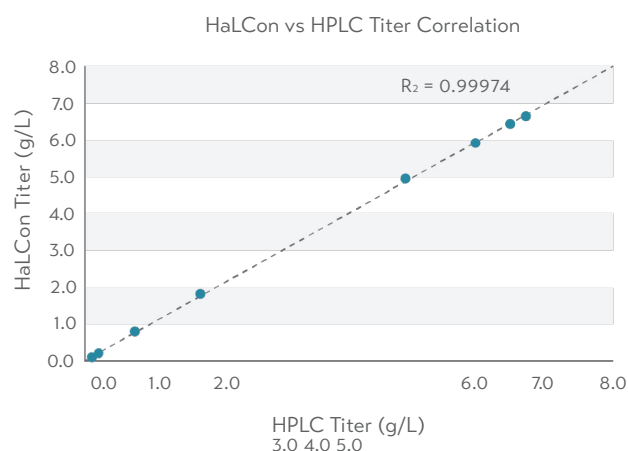
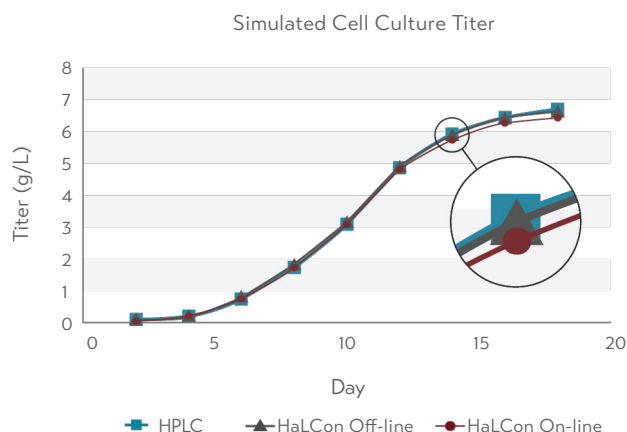
- HaLCon is the first purpose-built liquid chromatography system for real-time bioprocess monitoring.
- It analyzes crude bioreactor samples and provides HPLC-quality IgG titer results in under five minutes.
- This rapid, high-confidence data enables critical, real-time process control decisions and ensures consistency in upstream biomanufacturing.
- HaLCon is the only instrument to use HPLC-quality liquid chromatography without the need for method development, preparatory work, or specialized training.

No more bottlenecks:

- Excellent tool for development, pilot, MS&T, and/or manufacturing
- Decrease time between DoE /cell culture runs; No more waiting hours or days for results
- Seamless integration into your biomanufacturing suite without disrupting existing workflows
- Fast, easy-to-use, accurate, reproducible
- No chromatography expertise required

See How HaLCon Compares to HPLC

Be confident in your titer measurements with HaLCon, which delivers protein titer concentration that correlates to off-line HPLC measurements across an extraordinary dynamic range.





Nest Autosampler

Boost efficiency with our latest in high-throughput automation

- Delivers fast and accurate results without the need for method development or specialized training
- High throughput titer automation saves valuable time and money
- Multi-sample automation with fast turnaround time
- Holds up to 2 x 96 well plates or 2 x 48 (2mL vial) racks
- Perfect titer solution for Ambr 15/250
- Cooling and non-cooling options



Real-time data is actionable data!

HALCON PRODUCT SPECIFICATIONS

Dimensions (H x W x D)	20.5 x 9.75 x 16 in (52 x 25 x 40 cm)
Dry Weight	Approx. 30 lbs / 14 kg
Power Requirements	External: 100 – 240 VAC, 50 – 60 Hz Input: 100-240V, 1.5A
Certifications	RoHS, REACH, CE
Reagent and Analysis Module Shelf Life	2 year shelf life / 90 days on instrument
Reagent Capacity	1,000 analyses
Analysis Time	< 5 minutes
Injection Volume	100 uL
Accuracy vs HPLC	+/- 10%
Dynamic Range	0.1 g/L – 10 g/L
Environmental	15-40°C, 20-100% relative humidity, non-condensing

HALCON ORDERING INFORMATION

Part Number	Description
BP110-0001	HaLCon Protein Analyzer Instrument
BP210-1000	HaLCon Reagent Pack, Titer, 1,000 tests
BP310-1000	HaLCon Analysis Module, Titer, 1,000 tests



Experience the transformative impact of automated real-time protein titer monitoring for bioprocessing!

Contact our experts today:
info@redshiftbio.com

NEST PRODUCT SPECIFICATIONS

Dimensions (H x W x D)	300mm x 510 mm x 360 mm (without cooling) 300mm x 575 mm x 360 mm (with cooling)
Dry Weight	19 kg (without cooling) 21 kg (with cooling)
Power Requirements Power Consumption:	100-240 Vac +/- 10%, 50-60 Hz 200VA
Certifications	CE, RoHS, FCC, ICES-01, IEC61010-1, IEC61010-2-081, IEC61326-1, EN5011/CISPR11 UL and CSA Approved
Sampling Vessels	96 well plates, 2 ml vials
Sample Capacity	192 (96 well plates) 96 (2 ml vials)
Analysis Time	<5 minutes
Injection Volume	120 - 150 uL
Carryover	<0.1%
Wash Solvent	Integrated with solvent bottle
Wetted Parts in Flow Path	SS316, PTFE, TEFZEL, VESPEL, Glass, Teflon
Operating Temperature	10-40 ° C

Options (factory installed)

Sample Tray Cooling	Built -in Peltier cooling Range: 4 ° C to Ambient -3 ° C Temp: Air temperate in sample compartment: 4 ° C +/- 2 ° C (at teperature sensor) (Temperature at relative humidity of 80% and ambient temperature of 25 ° C)
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NEST ORDERING INFORMATION

Part Number	Description
BP840-002	Nest Autosampler, without cooling
BP840-003	Nest Autosampler, With cooling



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