



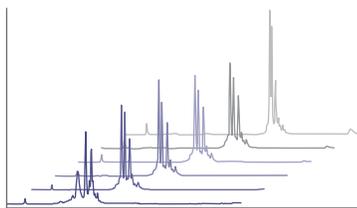
Agilent InfinityLab Bio-inert LC Solution

TRUE BIO-INERTNESS FOR EFFICIENT BIOMOLECULE ANALYSIS



OPTIMIZE YOUR WORKFLOW EFFICIENCY WITH A TAILORED BIO-INERT LC SOLUTION

The Agilent InfinityLab Bio-inert LC Solution takes you to the next level of confidence in bio-analysis. The corrosion resistant titanium solvent delivery system and metal-free sample flowpath ensure full integrity of biomolecules in all your applications. Plus, the latest technology gives you the capability to increase your efficiency – every day, in every way.



EVERYDAY ANALYTICAL EFFICIENCY

Automated method development and easy pH scouting with Agilent Buffer Advisor combines with the latest biocolumn technology for faster bioanalysis.

EVERYDAY INSTRUMENT EFFICIENCY

Superior sample logistics and high sample capacity ensure the highest instrument utilization including suitability for multiple attribute analyses.

EVERYDAY LABORATORY EFFICIENCY

The 100 percent bio-inert flowpath guarantees increased method and instrument robustness for increased uptime and decreased maintenance.

COMPLETE SOLUTIONS

The Agilent InfinityLab Bio-inert LC Solution is a complete end-to-end solution, combining superior instruments, columns, smart supplies, intuitive software, and services.



InfinityLab Instruments, Columns, and Supplies

Designed to work together in perfect harmony, the Agilent InfinityLab Bio-inert LC Solution combines with Agilent AdvanceBio columns (part of the InfinityLab family), to give you unmatched bioseparation power. Agilent InfinityLab bio-inert supplies round up this solution for optimal performance and highest efficiency in your biomolecule analysis.

Agilent CrossLab

Services and Support

Agilent CrossLab, the world leader in innovative laboratory services, software, and consumables, delivering vital, actionable insights to drive improved economic, operational, and scientific outcomes.

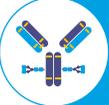
Agilent OpenLAB

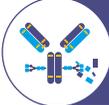
Software and Informatics

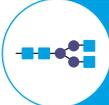
Controlled through Agilent OpenLAB software, InfinityLab LC Series instruments support your efforts to optimize your bio-analysis LC workflows by reducing the time you spend on data processing, review, and reporting.

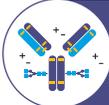
FLEXIBLE AND MODULAR FOR ADVANCED BIOSEPARATIONS

Put your trust in an LC system that runs, and runs, and runs: the InfinityLab Bio-inert LC Solution is based on the reliable and robust Agilent 1260 Infinity II LC System. In addition, new bio-inert supplies enable multiple attribute analyses without column exchange between assays.

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Titer determination and purification (Affinity LC)
Agilent Bio-Monolith Protein A, Protein G
- 

Protein identification and impurity profiling (Reversed-phase LC)
Intact level - AdvanceBio RP-mAb (LC-DAD), PLRP-S (LC-MS)
Peptide level - AdvanceBio Peptide Mapping
- 

Glycan analysis (Hydrophilic interaction LC)
AdvanceBio Glycan Mapping columns
- 

Charge variant analysis (Ion exchange LC)
Agilent Bio Mab, Agilent Bio IEX
- 

Aggregation analysis (Size exclusion LC)
AdvanceBio SEC

Agilent AdvanceBio column choices for the most common bioanalysis workflows.

PRECISE COLUMN HANDLING

The Agilent 1260 Infinity II Multicolumn Thermostat (MCT) with bio-inert heat exchangers enable precise column thermostating over a broad range of temperatures. Therefore, providing robust and reliable separations for maximum application flexibility.

Materials in flowpath: PEEK

ADVANCED COLUMN PERFORMANCE

With Agilent AdvanceBio columns, you can advance your biopharmaceutical discovery, development and QA/QC utilizing conventional and ultraperformance LC systems for analysis of intact and fragmented monoclonal antibodies.

**BIO
INERT**

SENSITIVE BIOMOLECULE DETECTION

The Agilent 1260 Infinity II Diode Array Detector WR offers multiple wavelength and full spectral detection up to 120 Hz. It offers maximum flexibility with a wide wavelength range of 190 to 950 nm, as well as the choice of 12 flow cells, including a bio-inert flow cell.

Materials in flowpath: Sapphire, PEEK, zircon oxide, FEP

FLEXIBLE SOLVENT AND COLUMN SELECTION

Multiply your capabilities with optional InfinityLab Bio-inert Quick Change valves for the 1260 Infinity II MCT. For sample enrichment and clean up, automated column regeneration, method development, and multiple attribute analysis with the new bio-inert four-column selector valve.

Materials in flowpath: PEEK, ceramic

EFFICIENT SAMPLE HANDLING

The highly flexible, ultralow carryover Agilent 1260 Infinity II Bio-inert Multisampler features a metal free sample flowpath and is the ideal injector for all biorelated applications.

Materials in flowpath, upstream of sample introduction: Titanium, gold, PTFE, PEEK, ceramic

Materials in flowpath, downstream of sample introduction: PEEK, ceramic

ROBUST SOLVENT DELIVERY

The corrosion resistant Agilent 1260 Infinity II Bio-inert Pump is ideally suited for your biological and extreme pH applications, offering high salt tolerance and a wide pH range.

Materials in flowpath: Titanium, gold, platinum-iridium, sapphire, PEEK, PTFE, ruby, ceramic, FEP, PFA



COMPREHENSIVE BIOLOGICAL ENTITY ANALYSIS

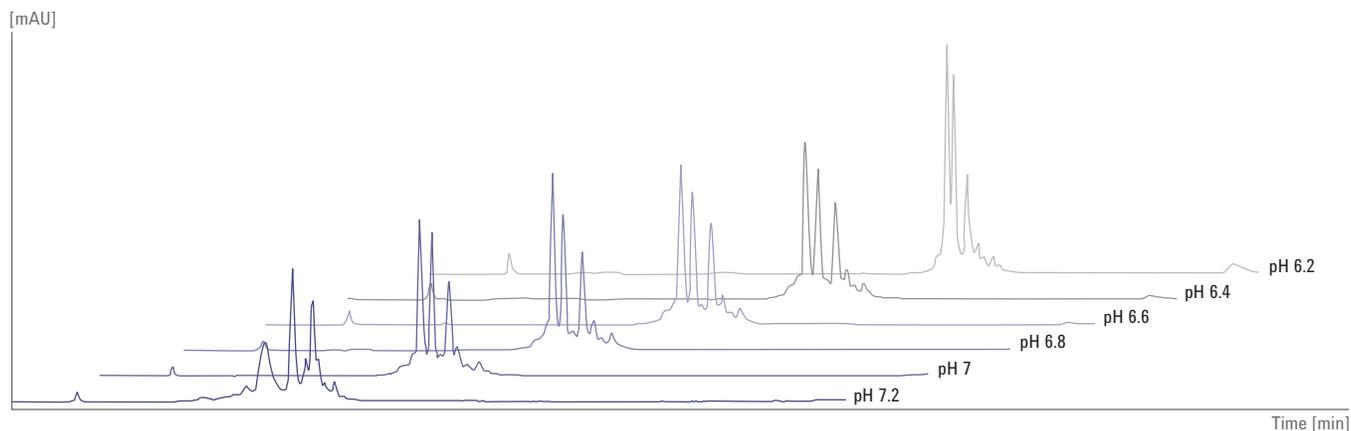
In monoclonal antibody (mAb) characterization it is essential to analyze critical quality attributes. The most common methods used for such characterizations include: size exclusion chromatography (SEC) for the analysis of aggregates, ion exchange chromatography (IEX) to identify acidic and basic isoforms, and peptide mapping for primary structure analysis. Agilent has developed instruments, columns, and tools that simplify and accelerate these workflows.

Charge Variant Analysis



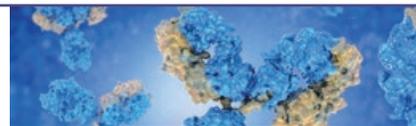
Agilent Buffer Advisor software eliminates the tedious and error-prone method-development steps of buffer preparation, buffer blending, and pH scouting. This software provides a fast and simple way to create salt and pH gradients. Utilizing the mixing principle of the Agilent 1260 Infinity II Bio-inert Pump, the Buffer Advisor software facilitates dynamic mixing of solvents from four stock solutions. Thus simplifying your bio-analysis workflows and significantly reducing the time required for buffer preparation.

↓ Download Application Note from www.agilent.com, search for 5991-7442EN.



Using dynamically mixed four-component gradients, calculated by Buffer Advisor software, shortened and simplified the workflow for pH scouting significantly.

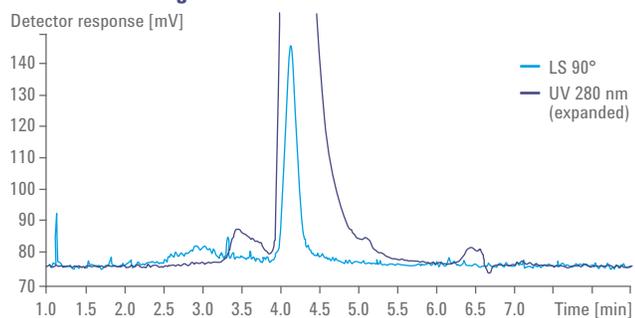
Aggregation Analysis



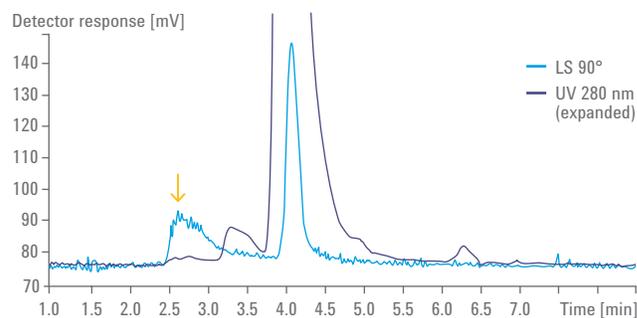
The performance of SEC in the determination and quantitation of aggregates and potential degradants, is significantly increased with the use of advanced light-scattering (LS) detection. The Agilent 1260 Infinity II Multi-Detector Bio-SEC Solution with AdvanceBio SEC columns is an easy-to-use optimized solution to obtain this advanced information.

↓ Download Application Note from www.agilent.com, search for 5991-7476EN.

A Rituxumab originator

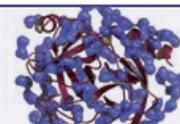


B Rituxumab biosimilar



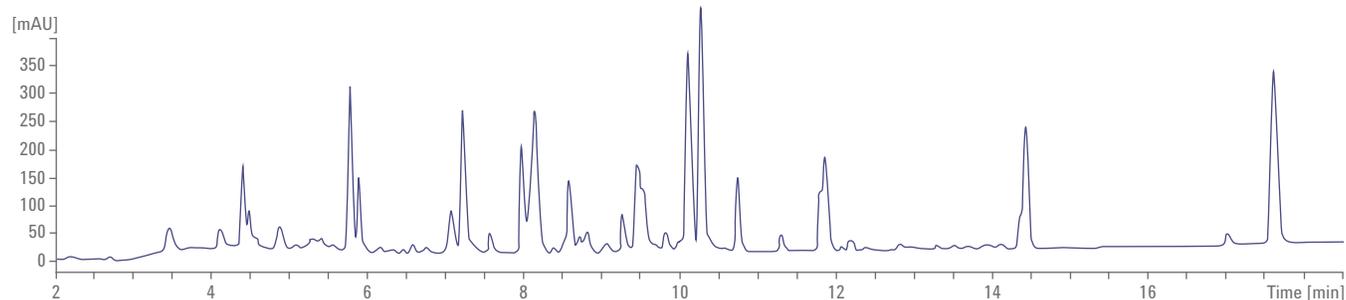
Comparison of LS analysis rituximab innovator (A) and rituximab biosimilar (B) run at 150 mM sodium phosphate, pH 7.0. Light scattering detection proved more responsive to higher-order aggregates.

Peptide Mapping



Peptide mapping is used to demonstrate proof of identity of protein drugs. Conventional peptide mapping with fully porous HPLC columns can take more than 60 minutes to complete. Agilent AdvanceBio Peptide Mapping columns let you quickly resolve and identify amino acid modifications in a proteins primary structure.

↓ Download Application Note from www.agilent.com, search for 5990-6192EN.



Analysis of P128 digest using an AdvanceBio Peptide Mapping column, 3.0 mm x 150 mm, 2.7 μ m at a flow rate of 0.6 mL/min flow rate.

Learn more

www.agilent.com/chem/infinitylab-lc-bio-inert

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