Be Agilent Sure in Your CQA Monitoring

Understanding the attributes of a biologic drug—and the processes used to create it—is critical to ensuring safety, efficacy, and pharmacokinetics. Agilent AdvanceBio columns deliver results you can be sure of when analyzing highly complex biotherapeutic molecules and monitoring their purity, potency, and other critical quality attributes (CQA).



Every individual column is QC tested for high efficiency. All AdvanceBio columns have an additional application-specific QC test to ensure high performance.

Learn more about Agilent AdvanceBio columns www.agilent.com/chem/advancebio

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Charge Variant Analysis

Enhances the accuracy and speed of

	Advantage
articles	High-efficiency separations
	Eliminates non-specific binding
	High ion exchange capacity ideal for MAbs

Advantage

Eliminates non-specific binding

A column for every separation



Amino Acid and Cell Culture Analysis

Small molecule chromatography (<150 Å) Delivers robust, high-resolution separations

AdvanceBio Amino Acid Analysis (AAA) LC/UV or LC/FLD with sample derivatization

Attribute	Advantage
Exceptional resolution	More reliable results
High pH-resistant C18 stationary phase	Longer column lifetimes
HPLC and UHPLC compatible	Increased flexibility

AdvanceBio MS Spent Media LC/MS without sample derivatization

Attribute	Advantage
HILIC LC separation/ MS detection	One method for multiple metabolite classes
No sample	Use any
derivatization needed	LC/MS system
PEEK-lined stainless	Excellent peak shape
steel column hardware	and recovery



Peptide Mapping

Reversed-phase chromatography (<150 Å) Reliably characterizes primary sequence and detects PTMs

AdvanceBio Peptide Mapping

Protein identification and PTM analysis

Attribute	Advantage
Endcapped C18 bonded phase	Good retention of hydrophilic peptides
Superficially porous particles	UHPLC-like efficiency at modest back pressure

AdvanceBio Peptide Plus Ideal formic acid performance for MS detection

Attribute	Advantage
Sharp peaks with formic acid	Good MS sensitivity
High sensitivity	Identify critical low-level modifications
Charge surface chemistry	Preserve high performance with large sample loads
Unique selectivity	Resolve important PTMs such as deamidation



AdvanceBio webinar series:

Live webinars and recordings to play back at your convenience

www.agilent.com/chem/advancebio-webinars





Excellent peak shape No compromise between sensitivity and separation with formic acid for MS detection