

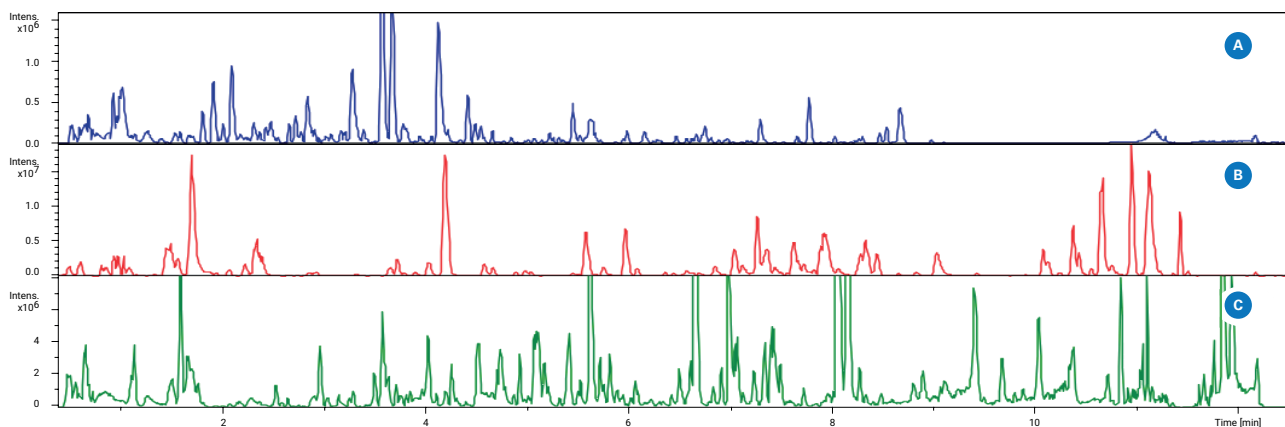


Bio-AQ columns

For high confidence small molecule metabolomics workflows

Reversed-phase separations are a stable chromatographic technique in metabolomics workflows owing to their excellent performance characteristics and proven reliability. However, not all C18-based stationary phases are fit for the purpose of

maximizing small metabolite retention. With 100% aqueous mobile phase compatibility, polar compound retention is maximized, benefitting metabolomics applications of biofluid and tissue extracts.



The picture above shows reversed-phase separations of (A) polar metabolites extracted from human urine (B) 3-nitrophenylhydrazine derivatized metabolites from human plasma and (C) metabolites of the medicinal plant *Solenostemma argel* (Del) Hayne.

Product features:

- **Bruker Bio-AQ columns enable fast and high-capacity separation of relevant complex matrices for improved metabolome coverage.**
- **Enhanced data analysis and confidence:** Improving chromatographic peak shapes, peak resolutions, and ensuring reproducible retention times foster greater confidence in small molecule annotations.
- **Unique C18-bonded phase with integral polar functionality compatible with 100 % aqueous solvents for improved retention of polar compounds.**
- **Excellent reproducibility and column lifetime** featuring ultra high purity, base deactivated silica.
- **Low system pressure for reliable performance.**

Column Name	Material-#	Length [mm]	Stationary phase	Aqueous Compatibility [%]
Bruker Bio-AQ Ultra Fast	1901675	20	C18AQ	100
Bruker Bio-AQ High Throughput	1901674	50	C18AQ	100
Bruker Bio-AQ Standard	1901673	100	C18AQ	100
Bruker Bio-AQ Deep Phenotyping	1901670	150	C18AQ	100
Bruker Bio-AQ Guard Column	1901671	3 cartridges	C18AQ	100
Guard column holder	1901672	n .a.	n .a.	n .a.

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