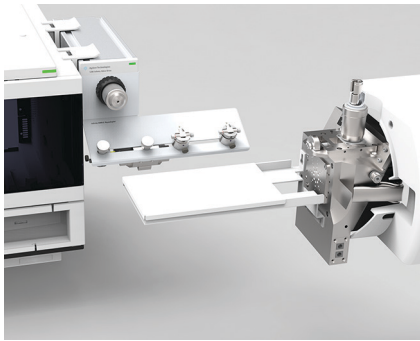# Agilent Infinity UHPLC Nanodapter

Data Sheet

When the amount of sample is severely limited, the Agilent Nanodapter allows an Agilent 1290 Infinity II Binary Pump to quickly be changed from Agilent Jet Stream Proteomics with 2.1 mm columns to nano-LC flows for compatibility with the high efficiency G1992A Nanospray source. Nanodapter components can easily be reconfigured by the operator into several different flow paths to fit method requirements.

Infinity UHPLC Nanodapter features

Parameter	Value
Flow rate	100 to 1,000 nL/min (columns with internal diameters between 0.050 mm and 0.150 mm)
Flow configuration	Passive split flow with continuous monitor of nano-flow
Flow monitoring	In-line flow sensor with direct readout and PC plotting software
Divert valve	Optional configuration for rapid transfer of sample to guard column
Maximum pressure	1,000 bar (14,500 psi)
Retention time precision	< 0.25 minutes Standard Deviation
System delay time	Approximately 5 minutes at 350 nL/min (primary split point to ESI spray tip with 0.075 mm × 150 mm column)
Time to switch hardware from conventional to nano-flow	< 30 minutes

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Base Peak Chromatograms for 500 ng of *E. coli* Digest
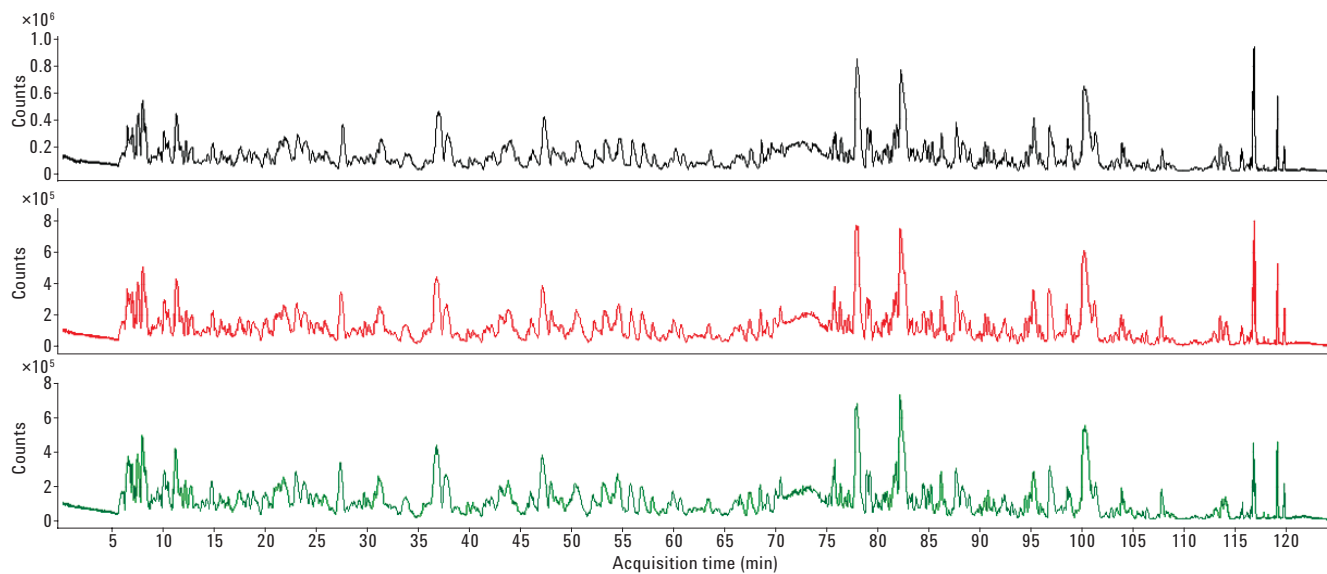

Figure 1.   Agilent AdvanceBio Peptide Map C18, 0.075 × 150 mm, 2.7 μm column with nano-LC flow rate of 340 nL/min (binary pump flow rate approximately 0.08 mL/min); injection volume of 3.3 μL (amount on column: 500 ng).

Table 1.   Coverage Can Be Improved by Injecting More Digest, Lengthening the Gradient Beyond 120 Minutes, or Changing to a Longer, More Efficient Column

Gradient length (min)	Replicate	Digest	Amount loaded	No. of proteins	No. of unique peptides
120	1	*E. coli*	500 ng	1,272	8,731
120	2	*E. coli*	500 ng	1,252	8,776
120	3	*E. coli*	500 ng	1,273	8,692
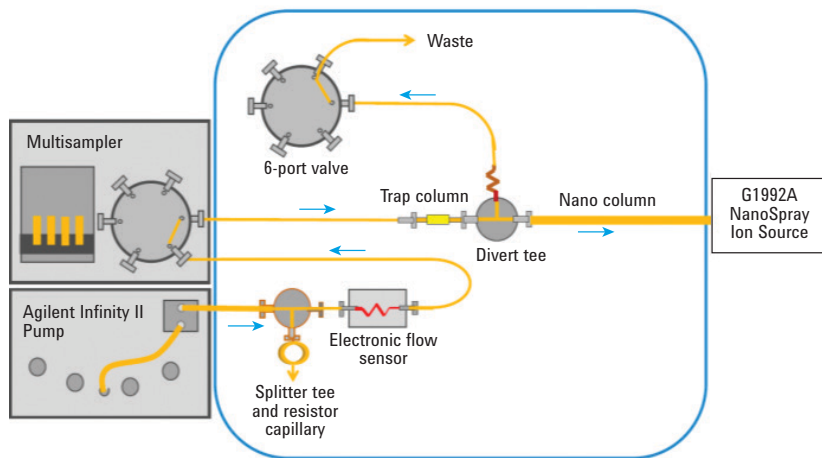
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