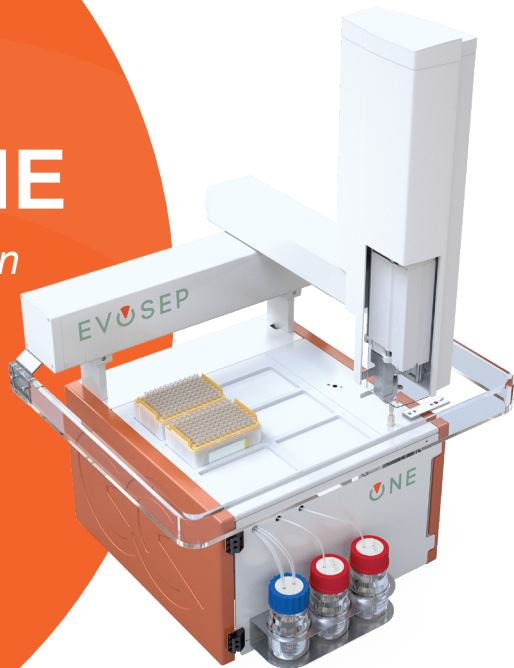


EVOSEP ONE

*A Standardized Separation
Tool for Clinical Omics*

EVOSEP



Built for standardization

The six standard Evosep One methods cover the range from ultrahigh throughput single-shot analysis to full proteome analysis with fractionation strategies.



High
throughput



Proteome
coverage

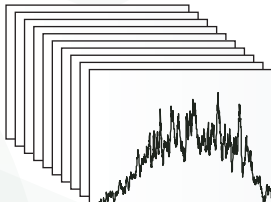
	Gradient Length (min)	Cycle Time (min)	Flow Rate ($\mu\text{l}/\text{min}$)
500	2.2	2.9	4.0
300	3.2	4.8	4.0
200	5.6	7.2	2.0
100	11.5	14.4	1.5
60	21.0	24.0	1.0
30	44.0	48.0	0.5

Evosep One methods are designed and tested to provide the best chromatography with the lowest possible system overhead **every time, all the time.**

Highly reproducible data

Out-of-the-box reproducibility

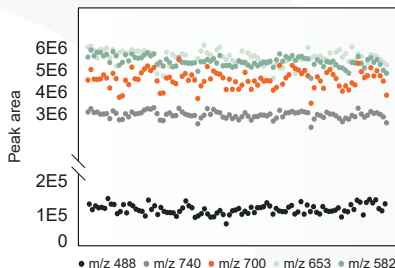
Evosep One provides a standardized solution with excellent reproducibility, facilitating individual studies and inter-laboratory collaborations alike.



Run-to-Run
0.9 seconds

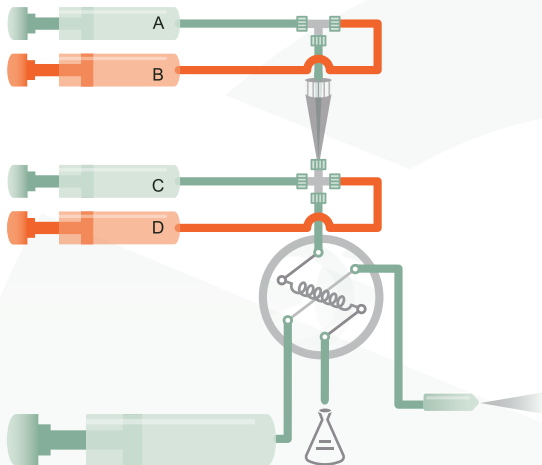
Low analytical variability

The low analytical variability between samples is a result of carefully calibrated flow control.

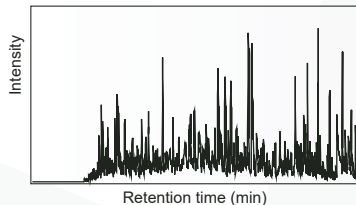


Peak area derived from five different BSA peptides from 96 individual injections using 100 samples per day. These corresponds to CV% of 6% for the five peptides.

Robust system design

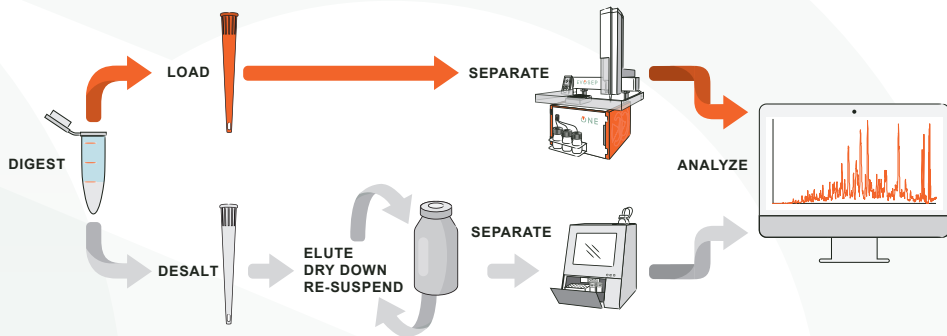


The Evosep One pumping system is split into a high-speed, low pressure, gradient generation section and a high pressure isocratic delivery section. It is designed to eliminate throughput bottlenecks and extend service intervals.



Simplified workflows

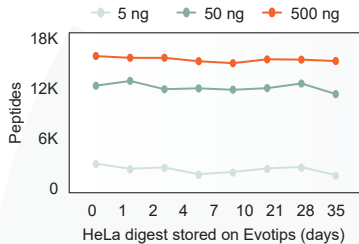
The Evotip serves as an integrated purification step, which saves time and eliminates sample handling steps compared to conventional methods.



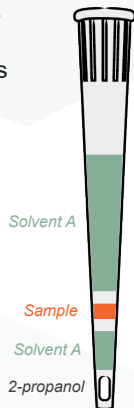
Fail-safe sample loading

Disposable trap columns

The sample is loaded and desalted offline on the Evtip. Loaded Evtips can be stored for up to 35 days. The proteome stability is robust at various loads.

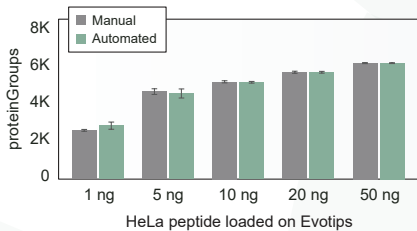


Average peptide identifications from four replicates of HeLa using 60 samples per day.



Automated loading protocol

The full sample loading protocol can be completely prepared in the individual Evtip, with air gaps between the different liquid layers and pushed through the C18 resin with positive air pressure.



Quadruplicate injections of 1, 5, 10, 20 and 50 ng HeLa using the Whisper 40 SPD method.

Chromatographic excellence

Our methods are optimized for our Endurance and Performance columns to deliver sharp symmetrical peaks and each analytical column can routinely analyze thousands of samples.

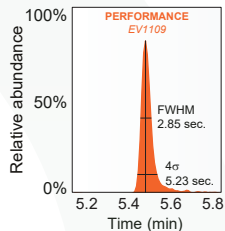
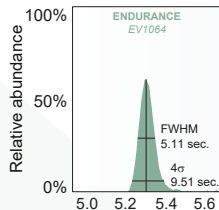
ENDURANCE

500	4 cm x 150 μ m, 1.9 μ m <i>EV1107</i>
300	4 cm x 150 μ m, 1.9 μ m <i>EV1107</i>
200	4 cm x 150 μ m, 1.9 μ m <i>EV1107</i>
100	8 cm x 100 μ m, 3 μ m <i>EV1064</i>
60	8 cm x 100 μ m, 3 μ m <i>EV1064</i>
30	15 cm x 150 μ m, 1.9 μ m <i>EV1106</i>



PERFORMANCE



8 cm x 150 μ m, 1.5 μ m <i>EV1109</i>
8 cm x 150 μ m, 1.5 μ m <i>EV1109</i>
15 cm x 150 μ m, 1.5 μ m <i>EV1137</i>



Extracted base peak
chromatogram of BSA peptide
m/z 722 using 60 samples per day.

A versatile platform

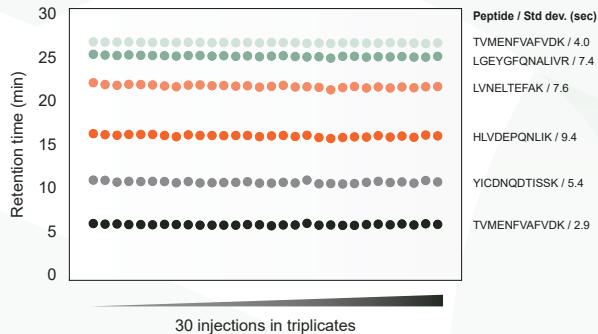
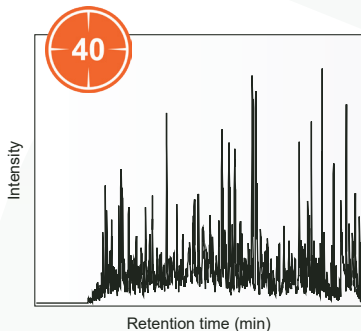
Evosep+ is a dynamic environment with simplified solutions for specialized applications. These methods are developed with the same key values as our standardized solutions - ease of use, speed, robustness and sensitivity.

		Gradient Length (min)	Cycle Time (min)	Flow Rate (nl/min)
80	WHISPER 80 SPD	15.0	18.0	100
40	WHISPER 40 SPD	31.0	35.0	100
20	WHISPER 20 SPD	58.0	65.0	100
	EXTENDED METHOD	88.0	92.0	220
	HIGH ORGANIC METHOD	11.5	14.4	1500



Effortless nanoflow

Whisper™ provides out-of-the-box nanoflow methods for sensitive applications, like single cell proteomics. The methods make use of Evosep's unique low pressure gradient formation and very accurate flow control on the same standard system, without technical modifications.

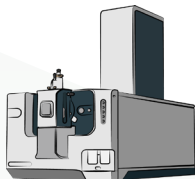


Seamless integration

The Evosep One connects easily with leading mass spectrometers using optimized emitters and zero dead-volume connectors. Control is provided by native software drivers where possible.



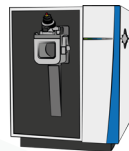
Bruker



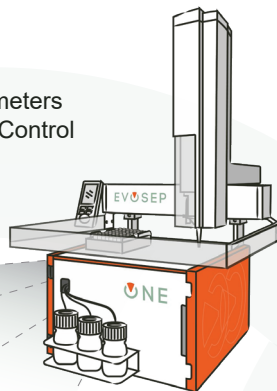
SCIEX



Agilent



Thermo Scientific



Comprehensive service coverage

The support your Evosep One system after the initial warranty period, Evosep offers a comprehensive range of service plans and products. These range from complementary telephone and remote support to full service contracts.



Product	Online support	Preventive maintenance	Spare parts coverage	Wear parts coverage
Basic	X			
Preventive maintenance		X		
Endurance service	X	X	X	
Performance service	X	X	X	X

Learn more



APPLICATIONS

Dive into the inspiring research from our users and explore the wide range of applications.



LITERATURE ROOM

Find all publications, product brochures and presentations showcasing Evosep One.



WEBINARS

Explore our collection of webinars.

EVOSEP

Making clinical proteomics
100 times more robust
and 10 times faster