EVUSEP

EVOSEP ONE – UNIQUE SYSTEM PROPERTIES

The Evosep One from Evosep is unique in its features and customer benefits. Most notable features and benefits include:

- Use of disposable trap columns:
 - Reduces carry-over in e.g. complex HeLa digests to < 0.05% of TIC.
 - Reduces cycle time.
- Partial elution from trap columns.
 - Leaves impurities on the disposable traps, thereby greatly increasing column life.
- Gradient offset focusing (where the organic %Bgradient is lowered concurrently with the elution and pre-separation of peptides in a pre-formed gradient)
 - Allows shorter columns / improves resolving power on analytical column.
- Fast trap-elution and gradient formation at 30µl/min.
- Use of a long and narrow storage loop as hand-over between the low-pressure, high-flow gradient preparation and the high-pressure, low-flow gradient delivery.
- Four pumps (80%) of the system configuration is running at 30 bars or less
 - Reduces wear so recommended preventive maintenance cycle is following every 30,000 samples.
- Large sample capacity with room for six 96-tip racks.
- Optimized, fixed methods:
 - Up to 300 samples/day @ 1-2 μl/min flow rate
 - Up to 93% MS utilization rate

Throughput (samples/day)	Cycle Time (minutes)	Gradient (minutes)	Overhead (minutes)	Flow rate (µl/min)	Column suggestions
300	4.8	3	1.8	2.0	L: 2 cm, ID 150µm, 3µm C18 Reprosil
200	7.2	5	2.2	1.5	L: 5 cm, ID 150µm, 3um C18 Reprosil
100	14.4	12	2.4	1.2	L: 8 cm, ID 100um, 3um C18 Reprosil
60	24.0	21	3.0	1.0	L: 12 cm, ID 100um, 3um C18 Reprosil
30	48.0	45	3.0	0.6	L: 25 cm, ID 100µm, 3um C18 Reprosil



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