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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