

Positive pressure

extraction for

MS sample prep.

SIMPLIFY YOUR SAMPLE PREPARATION



The perfect tools for your sample preparation.

Tecan offers smart extraction consumables and compact benchtop units for MS sample prep workflows, enabling applications such as analyte enrichment and sample clean-up to be performed using positive pressure. Gas-based positive pressure SPE delivers maximum process reproducibility and uniformity across columns and well plates. Resolvex™ positive pressure workstations benefit from adjustable or programmable pressure settings, allowing you to optimize flow rates, reduce processing times and enhance analytical performance.



Resolvex M10 48:
For 1, 3 and 6 ml cartridges



Resolvex M10 96:
For 1 ml cartridges and 96-well plates

Manual processing

The manual Resolvex M10 48/96 are positive pressure manifolds for 1, 3 and 6 ml cartridges or 1 ml cartridges and 96-well plates, respectively. Restricted-flow gas ports allow individual pressure control for each well, ensuring consistent processing of all samples. The easy-to-use Resolvex M10 workstation is ideal for a wide range of MS sample prep applications.

Simplicity in operation

The Resolvex M10 offers ease of use and robustness for daily operation. It automatically adjusts to various plate heights and is intuitively controlled, avoiding the need for extensive training.

Controlled positive pressure processing

Pressure adjustment allows smooth and immediate column flow responses to be achieved. An intuitive flow toggle enables switching between the low setting – for precise flow control of liquid samples – and a high setting, for drying the sorbent bed.

Uniformity of flow

Individual flow restrictors in each channel ensure that even partly filled plates or tube racks can be processed reliably, with minimal variation.

Viscous sample processing

The M10 can accommodate gas pressures up to 80psi, providing enough force to process even viscous samples reliably.

Automated processing

The Resolvex A200 is a compact benchtop automation system for MS sample prep in columns or plates. The need for manual intervention is minimized using programmable dispensing of up to 11 conditioning, wash and elution solvents.

Programmable positive pressure processing

Gas-based positive pressure SPE maximizes reproducibility and processing uniformity across columns and plate wells. Individual channel flow restriction guarantees robust processing of partly filled plates or column set-ups. Programmable pressure profiles allow optimization of flow rates, reducing processing times and enhancing analytical performance.

Automated liquid dispensing

Fast dispensing of up to 11 protocol solvents via the integrated eight-channel dispensing module.

Simplicity in operation

Intuitive touchscreen control for immediate productivity and seamless integration into standard laboratory operations.

Smart extraction consumables

Our SPE consumables use microparticulate sorbents with extra small flow paths to ensure greater contact with the analytes as they pass through the sorbent bed. This enables sample matrix components – salts, proteins, fatty acids and phospholipids – to be easily removed. Cleaner samples reduce ion suppression and the number of interfering peaks in LC-MS analysis. Smart consumables are available in 1, 3 and 6 ml sizes, plus narrow bore formats.

A patent-pending air gap technology prevents sample flow until positive pressure is applied – turning the extraction column into a reaction vessel. This enables on-column digestions and reduces sample transfers, while lowering the risk of cross-contamination, for faster turnaround times.

High efficiency filter

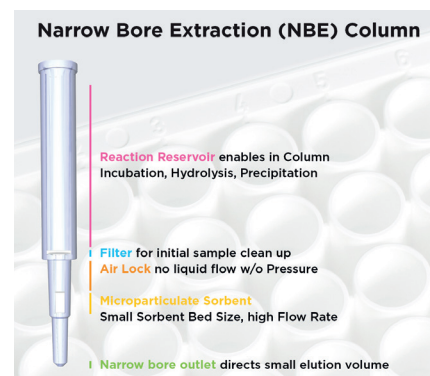
Suitable for extraction from biological fluids, including plasma, serum, urine, saliva and whole blood. The filtration capacity is equivalent to 1 ml columns.



Resolvex A200:
For SBS format 96-well plates
and 1 ml columns



96-well NBE plate



The NBE format extraction consumables offer significant workflow advantages

Analyte of interest	Suggested Tecan SP Sorbent (Cerex and NBE)
Buprenorphine, norbuprenorphine, and naloxone	Trace-B, HPSCX
Broad spectrum drugs (pain panel)	OFX, HSPCX
THC, THCA, synthetic cannabinoids	Trace-N, HPSAX, THC, PSCX
Amphetamines/methamphetamines	HPSCX, Trace-B
Benzodiazepines	HPSCX, Trace-B, Trace-J
EtG/EtS	EtGS
Nicotine and nicotine metabolites	PSCX, Tace-B
Thyroid hormones (rT3, T3, T4)	THY II
Tesosterone	WWP/Maestro
Vitamin D Metabolites	Maestro
25-OH-Vitamin D	Trace-N
17-alpha-hydroxyprogesterone, androstenedione, cortisol, testosterone, dordisone, estrogen, DHEA, estradiol, aldosterone, progesterone, 11-deoxycortisol, cortic osterone, dihydrotestosterone	WWP2

Everything for your sample preparation



M10 48

M10 96

A200

Column size

1 ml	X	X	X
3 ml	X	-	-
6 ml	X	-	-
NBE	X	X	X
SBS format 96-well plates	-	X	X

High reproducibility

Uniform column-to-column flow	X	X	X
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More convenient

No caps or plugs required for open column ports	X	X	X
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Easier to use

High pressure differential for viscous samples	X	X	X
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Reduced carry-over

Pressure-sealed column processing	X	X	X
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More powerful

Built-in nitrogen or air drying of extracts	X	X	X
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Manual processing

	X	X	-
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Automated processing

	-	-	X
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Are you interested? For inquiries/orders, please contact:

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