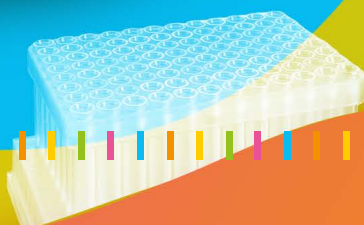
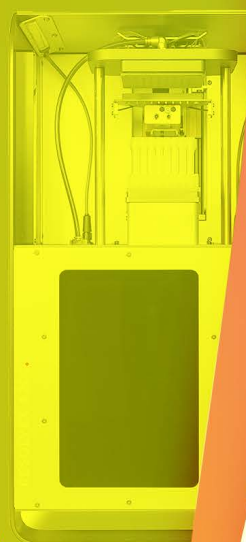


Tecan

Sample Preparation.

SAMPLE PREP THAT REVOLVES AROUND YOU



 **TECAN.**

Tecan's Purpose and Vision.

At Tecan, we are driven to improve people's lives and health. We do this by empowering our customers to scale healthcare innovation globally from life sciences to the clinic.

We collaborate with our customers in healthcare and the life sciences, from early-stage innovation through project implementation and beyond. We deliver the products, services and solutions that make lab processes and medical procedures precise, reproducible and compliant. This leads to scalable outcomes that are further reaching and ever more valuable to humankind.



**To understand
and fight disease.**

We accelerate discovery in medicine and life sciences, helping to develop novel therapeutics for improved patient outcomes.



To enable access.

We drive the translation of research insights into compliant clinical solutions at scale.



To further impact.

We broaden the availability and adoption of innovative solutions for treatment and diagnostics for patients across the world.

Values.

Everything we do is guided by our values.

- **Ambition.** We push the boundaries of possibility. Through continuous innovation and the empowerment of our teams, customers and partners, we enable them to achieve their personal and professional potential and their research and business goals.
- **Highest standards.** Customers choose us because we consistently deliver the highest standards in every market we serve. We lead our business with courage, curiosity, respect and brutal honesty.
- **Trust.** We have earned our reputation through honest actions and responsible leadership. Our employees, customers, shareholders, and partners know that their success is our top priority.



tecان.com/purpose-and-vision

We underpin our values with a strict adherence to our ethical code, respect for the environment, and compliance to all applicable laws and regulations.

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Sample Prep Extraction Consumables.

Introduction.

Tecan provides a variety of sample preparation consumables, including:

- solid-phase extraction (SPE) columns and plates
- filtration plates
- protein precipitation plates
- supported liquid extraction (SLE) columns and plates
- phospholipid removal columns and plates.

Tecan's expertise extends to the following application fields:

- Clinical
- Bioanalytical/pharmaceutical
- Proteomics (whole proteins and peptides)
- Food safety
- Toxicology/forensic

SMART SAMPLE PREPARATION

Our suite of solid phase extraction consumables uses microparticulate (30 µm or less) sorbents that are individually slurry packed (wet packing technique) on our automated packing platform, providing our customers with a robust, reliable, quality product.

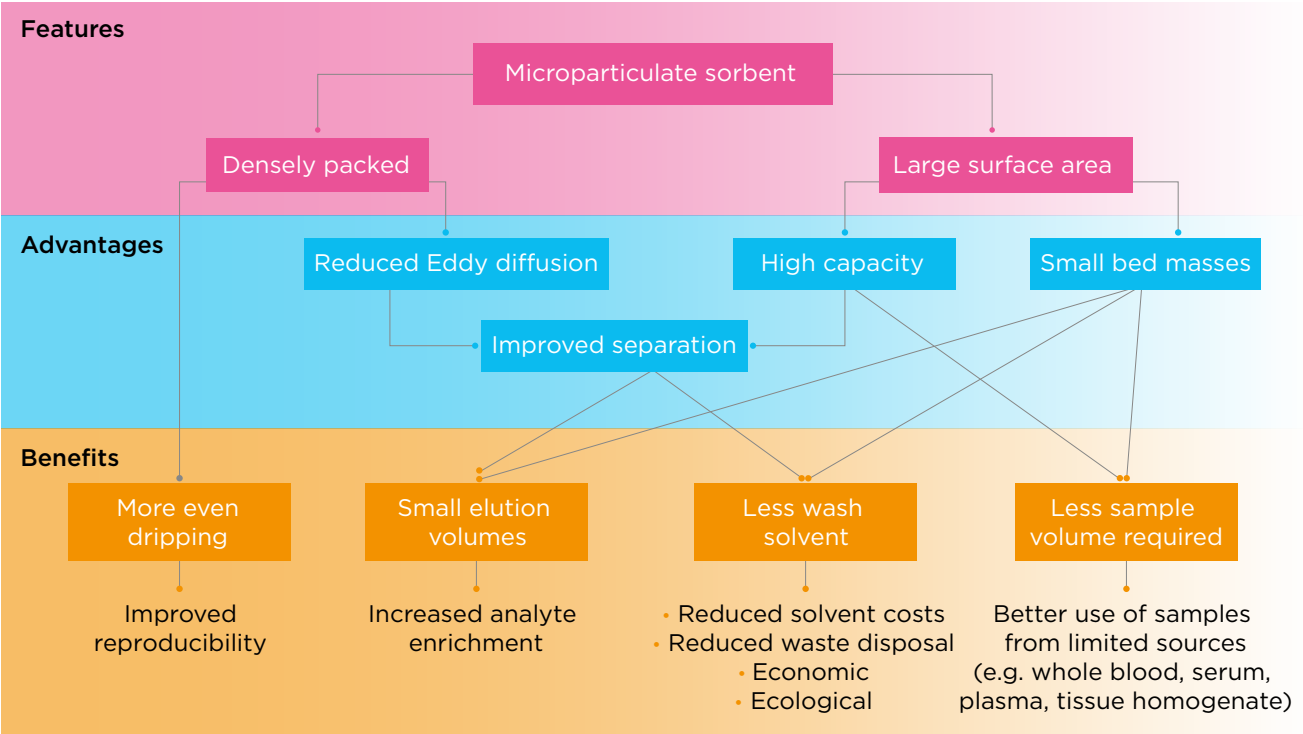
- Microparticulate sorbents provide users with a larger flow path and, therefore, a greater contact area for the analyte while traveling through the sorbent bed. This enables sample matrix components such as salts, proteins and fatty acids to be easily removed. The result is a cleaner sample, reduced ion suppression and fewer interfering peaks during analysis.

POSITIVE PRESSURE PROCESSING OF SPE COLUMNS HAS MANY ADVANTAGES OVER TRADITIONAL SPE

	Positive Pressure SPE	Traditional SPE
Sorbents	Microparticulate sorbent (10-30 µm)	Large particle (30 to 70 µm)
	Monodispersed particles	Large variations in particle size
	Large contact zone for analyte interaction	Solvent channeling through sorbent
	Fast and uniform	Reproducibility effects
Pressure	Up to 5 bar positive pressure	Gravity, vacuum, centrifugation
	Fast flow rates	Slow flow rates
	Consistent pressure across all wells, but individual wells	Vacuum reduction
	Handles difficult or viscous matrices	Clogging of single wells

Tecan's Resolvex portfolio comprises positive pressure instruments plus SPE columns and sorbents co-developed with customers to deliver the best possible performance, providing a number of clear advantages over conventional SPE.

KEY DIFFERENTIATORS OF TECAN'S RESOLVEX TECHNOLOGY
ARE THE MICROPARTICULATE SORBENTS



Tecan's Resolvex portfolio comprises positive pressure instruments plus SPE columns and sorbents co-developed with customers to deliver the best possible performance, providing a number of clear advantages over conventional SPE.

- Wet (slurry) packing – provides a more consistent and reliable product from batch-to-batch
- Various polymer and silica resin chemistries, from C18 to IEX
- Industry standard format as well as the ‘smarter’ NBE solution
- Proprietary sorbent blends for enhanced selectivity

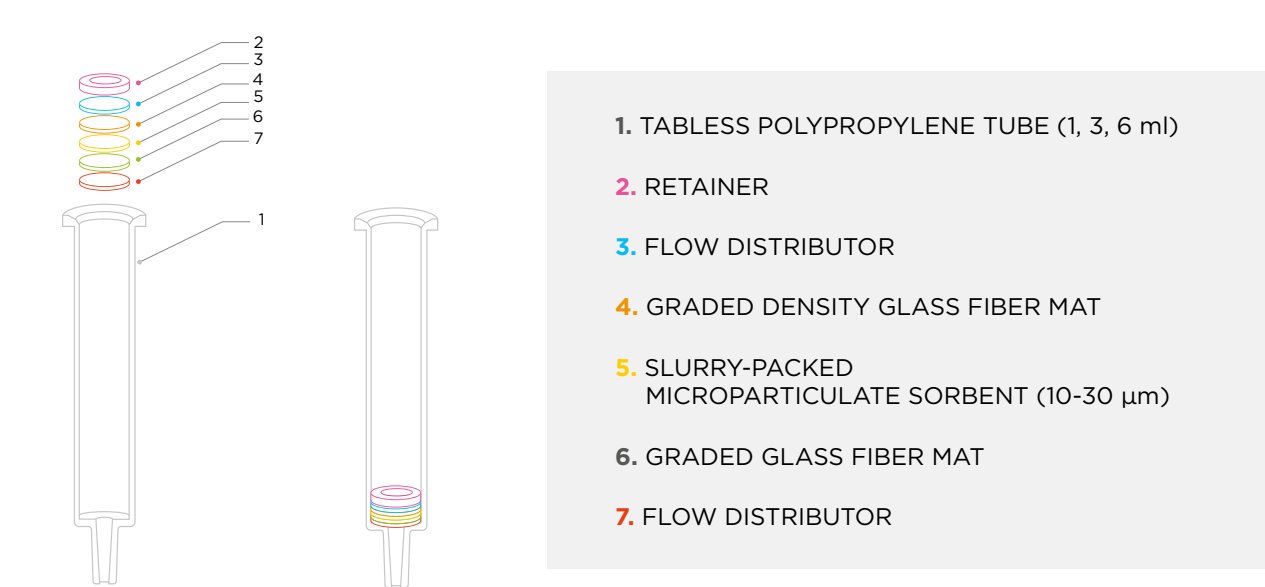
CEREX SPE COLUMNS

- Proven technology
- Unique design to allow for better flow distribution onto the sorbent
- Available in various sorbent particle sizes (10-30 µm)
- Specialized layered design to provide sample distribution and avoid clogging

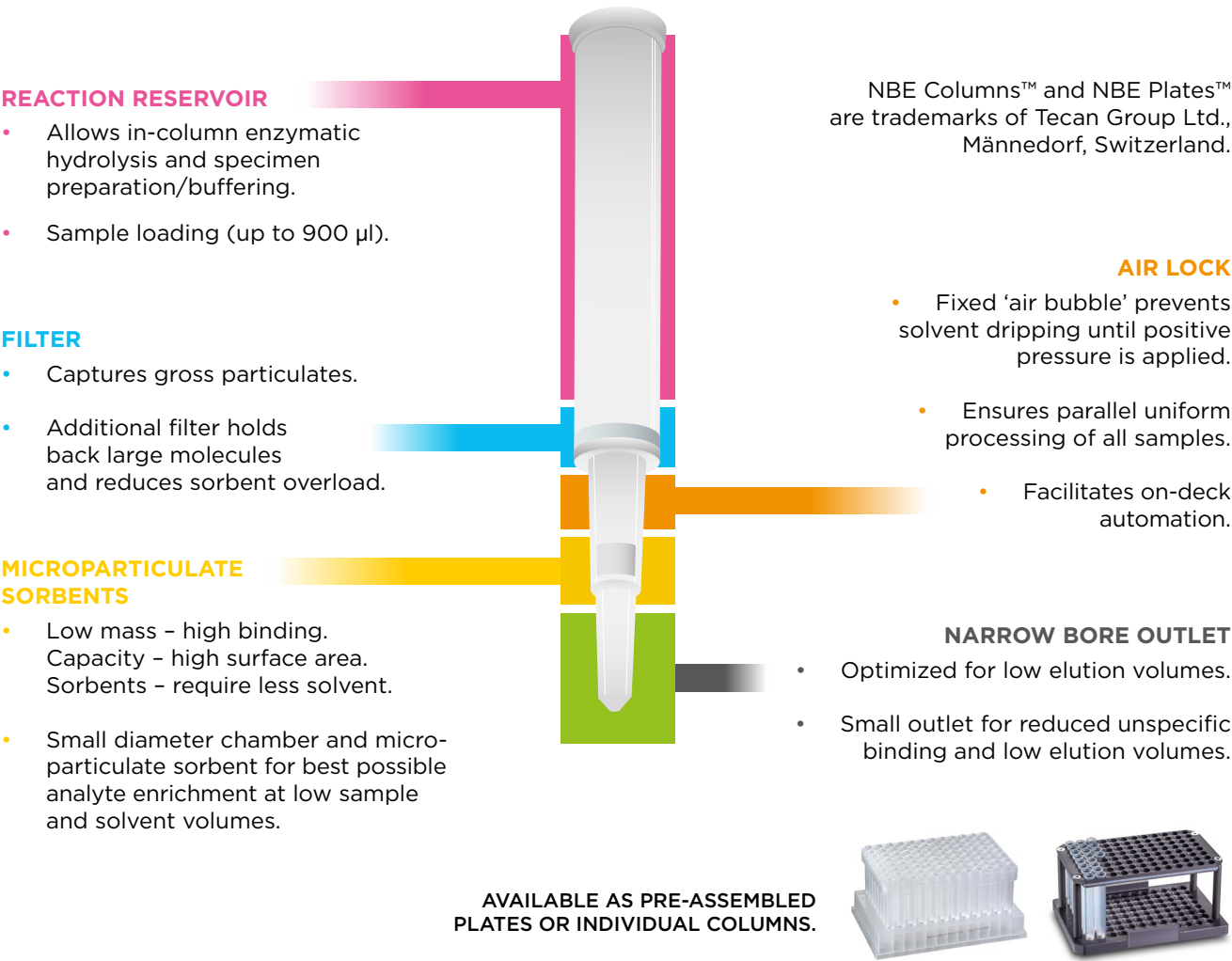
NBE - NARROW BORE EXTRACTION -
NEXT GENERATION SPE

- Delivers fundamental redesign of SPE workflows with substantial improvements
- Novel ‘pocket seal’ two-chamber design prevents breakthrough of samples until pressure is applied
- Integration of pre-SPE step in the reaction vessel (upper chamber)
- Filter for matrix clean-up
- Ideal for automation, with no dripping
- Uses microparticulates to further improve extraction efficiency
- Reduced elution volume allows for injection on MS without further processing
- Up to 5x smaller elution volumes vs standard 30 mg, 1 ml columns
- Allows workflows to be simplified and shortened, reducing waste and decreasing costs

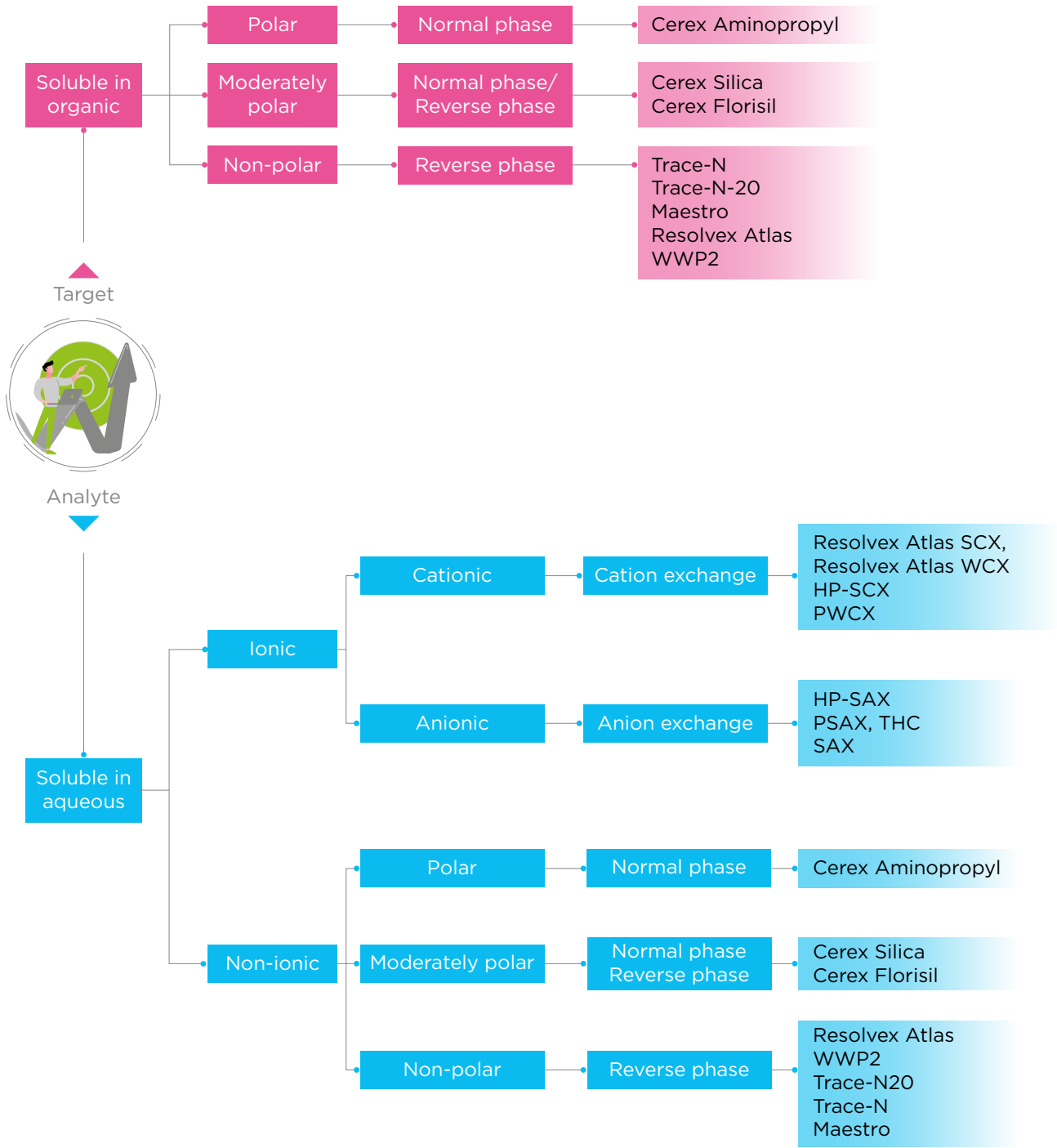
NOVEL CEREX FORMAT COLUMNS:
PATENTED AND PROVEN MICROPARTICULATE TECHNOLOGY



CONSOLIDATE WORKFLOW STEPS WITH TECAN NARROW BORE
EXTRACTION (NBE) COLUMNS



Column Selection Guide.



Sorbent Characteristics.

Sorbent name	Bonded phase	Particle size	Pore size	Surface area	Base material	pH range	IEX capacity
Resolvev Atlas HLB 30 µm	Hydrophilic-lipophilic balanced N-vinylpyrrolidone-divinylbenzene	30 µ	65 Å	750 m²/g	N-vinylpyrrolidone-divinylbenzene	1 to 14	N/A
Resolvev Atlas HLB 60 µm	Hydrophilic-lipophilic balanced N-vinylpyrrolidone-divinylbenzene	60 µ	65 Å	750 m²/g	N-vinylpyrrolidone-divinylbenzene	1 to 14	N/A
Resolvev Atlas SCX 30 µm			100 Å	400 m²/g		1 to 14	1.22 mEq/g
CLN II	Polymeric strong cation exchange	15 µ	200 Å		PSDVB	1 to 14	1.3 mEq/g
ETGS	Strong anion exchange	10 µ	80 Å		Micro Particulate Silica	2 to 8	
FNT	Polymeric strong cation exchange	15 µ	200 Å		PSDVB	1 to 14	1.3 mEq/g
HP-SAX	Polymeric strong anion exchange	20 µ	300 Å	250 m²/g	PSDVB	1 to 14	1.12 mEq/g
HP-SCX	Polymeric strong cation exchange	30 µ		750 m²/g	PSDVB	1 to 14	1.31 mEq/g
Maestro	C18 un-endcapped	10 µ	80 Å		Micro Particulate Silica	2 to 8	
OFQC	Proprietary ion exchange	30 µ	N/A		PSDVB	1 to 14	
OFX	Proprietary ion exchange	30 µ	N/A		PSDVB	1 to 14	
OFXQ	Proprietary ion exchange	30 µ	N/A		PSDVB	1 to 14	
PSAX	Strong anion exchange	15 µ	80 Å		PSDVB	1 to 14	
PSAX-S	Strong anion exchange	10 µ	80 Å		Micro-particulate silica	2 to 8	
PSCX	Polymeric strong cation exchange	15 µ	200 Å		PSDVB	1 to 14	1.3 mEq/g
PWCX	Weak cation exchange	15 µ	80 Å		PSDVB	1 to 14	
SAX	DVB SAX QUAT - 1,000 Å	15 µ	1,000 Å		PSDVB	1 to 14	
THC	DVB SAX QUAT - 10,000 Å	15 µ	10,000 Å		PSDVB	1 to 14	
Trace-B	Polymeric strong cation exchange	15 µ	200 Å		PSDVB	1 to 14	1.3 mEq/g
Trace-J	Polymeric strong cation exchange	15 µ	80 Å		PSDVB	1 to 14	
Trace-N	C18 endcapped	10 µ	80 Å		Micro-particulate silica	2 to 8	
Trace-N20	C18 endcapped	15 µ	80 Å		Micro-particulate silica	2 to 8	
WWP	Polymeric reverse phase	15 µ	80 Å		PSDVB	1 to 14	
WWP2	Polymeric reverse phase	30 µ	65 Å	750 m²/g	Water-wettable polymer	1 to 14	N/A

Sorbent Table.

Sorbent	Description	Mode	Analyte	Applications	Alternative to
Resolvex Atlas	Water-wettable polymer with unique hydrophilic-lipophilic balance. Reversed-phase retention without conditioning and equilibration steps for aqueous samples. Will not dry out with vacuum or positive pressure flows. Stable in organic solvents.	Reverse phase	Polar and non-polar	Matrix clean-up of drugs and metabolites in biofluids and extracts, high throughput biopolymer desalting	Oasis® HLB, Strata-X®, EVOLUTE® EXPRESS ABN, Bond Elut Plexa®
WWP2					
WWP	Water-wettable polymer. Reversed-phase retention without conditioning and equilibration steps for aqueous samples. Will not dry out with vacuum or positive pressure flows. Stable in organic solvents.				
Resolvex Atlas SCX	Mixed-mode, reversed-phase/strong cation-exchange, water-wettable polymer. Highly selective for bases. Stable in organic solvents.	Reverse phase and Strong cation exchange with hydrophilic-lipophilic balanced base sorbent	Bases	Aggressive matrix clean-up of basic drugs and metabolites in biofluids and extracts, drug monitoring, screening, identification, confirmation, and quantitation	Oasis MCX, Strata-X-C, EVOLUTE EXPRESS CX
HP-SCX					
FNT					
PSCX					
CLN II					
Trace-B					
Trace-J					
HP-SAX	Mixed-mode, reversed-phase/strong anion-exchange, water-wettable polymer. Selective for acids. Stable in organic solvents.	Reverse phase and Strong anion exchange	Acids	Aggressive matrix clean-up of acidic drugs and metabolites in biofluids and extracts, drug monitoring, screening, identification, confirmation, and quantitation	Oasis MAX, Strata-X-A, EVOLUTE EXPRESS AX
PSAX					
THC					
SAX					



Sorbent	Description	Mode	Analyte	Applications	Alternative to
Resolvex Atlas WCX	Mixed-mode, reversed-phase/weak cation-exchange, water-wettable polymer. Used to retain and release strong bases. Stable in organic solvents.	Reverse phase and weak cation exchange	Bases (including quaternary amines)	Aggressive matrix clean-up of strongly basic compounds and metabolites in biofluids and extracts. Drug monitoring, screening, identification, confirmation, and quantitation	Oasis WCX, Strata-X-CW, EVOLUTE EXPRESS WCX
PWCX					
OFX OFXQ OFQC	Proprietary blend of ion-exchange and water-wettable polymer targeted towards oral fluid collection devices.	Proprietary ion exchange	Bases	Aggressive matrix clean-up of basic drugs and metabolites from oral fluid collection devices	N/A
Trace-N	Hydrophobic, silica-based bonded phase used to retain phospholipids and proteins.	Reverse phase	Polar and Non-Polar	Extraction of hydrophobic molecules and polar species	Strata, Bond Elut, Sep-Pak®
Trace-N20					
Maestro	Silica-based sorbent with C18 bonding in proprietary coverage. Uses a combination of filtration and sorbent interaction.	Reverse phase	N/A	A pass-through sample preparation technique, to retain phospholipids, proteins, and particulates from sample matrices	Ostro™, Phree, Isolute® PLD+
PSAX-S	Strong anion exchange microparticulate silica	Strong anion exchange	Acids, Ethyl Glucuronide (EtG), Ethyl Sulfate (EtS)	Aggressive matrix clean-up of acidic drugs and metabolites in biofluids and extracts. Extraction of EtG & EtS from urine	Strata, Bond Elut, Sep-Pak
ETGS					
NH2	Moderately polar, silica-based bonded phase With weakly basic surface. Can be used as a polar sorbent with different selectivity for acidic/basic analytes or as a weak anion exchanger in aqueous medium below pH 8.	HILIC, normal phase, reverse phase	Extraction of strong anions	HILIC separation of sugars, drugs and drug metabolites, lipids	Strata, Bond Elut, Sep-Pak
Silica	Polar sorbent binds analytes in non-aqueous solvents. Also used as an intermediate-strength Cation exchanger in aqueous media and as a support for liquid-liquid partition.	HILIC, normal phase	Extraction of polar compounds that are similar in structure	Vitamins and food additives, lipid classification	Strata, Bond Elut, Sep-Pak

Suggested Loading Capacity.

	Sample matrix	5 mg	10 mg	20 mg	35 mg	50 mg
Polymeric sorbents	Blood, serum, plasma	100 µl	200 µl	400 µl	700 µl	1 ml
	Urine	250 µl	500 µl	1 ml	2 ml	3 ml
	Filtered tissue homogenates	10 mg	20 mg	40 mg	70 mg	100 mg
Sorbent wash and elution volumes						
	Minimum wash and elution volumes	50 µl	100µl	200 µl	350 µl	500 µl
	Recommended wash and elution volumes	200 µl	400 µl	400 µl	500 µl	1 ml

	Sample matrix	5 mg	10 mg	20 mg	35 mg	50 mg
Silica sorbents	Blood, serum, plasma	50 µl	100 µl	200 µl	350 µl	500 µl
	Urine	100 µl	200 µl	400 µl	700 µl	1 ml
	Filtered tissue homogenates	5 mg	10 mg	20 mg	35 mg	50 mg
Sorbent wash and elution volumes						
	Minimum wash and elution volumes	50 µl	60 µl	120 µl	200 µl	300 µl
	Recommended wash and elution volumes	200 µl	400 µl	400 µl	500 µl	1 ml



Suggested Starting protocols.

SUGGESTED ATLAS SPE PROTOCOL

- (Optional) Condition/equilibrate with methanol/DI water.
- Sample preparation: Dilute sample 1:1 with water or pH-adjusted buffer to neutralize the charge of the compound of interest. Neutralize the molecule according to the following:
 - For basic compounds, the neutral molecule exists at least 2 pH units below the pKa of the compound.
 - For acidic compounds, the neutral molecule exists at least 2 pH units above the pKa of the compound.
- Sample loading: Apply the samples to the columns at flow rates of 0.5-1 ml/min.
- Wash columns with 5-60 % methanol.
Note: Choose the strongest solution where no compound breakthrough occurs.
- Elute columns with 50:50 methanol/acetonitrile.
- Evaporate sample to dryness under nitrogen.
- Reconstitute in appropriate solvent or solution.

PROTOCOL: EXTRACTING BASIC COMPOUNDS WITH ATLAS-SCX SPE

- (Optional) Condition/equilibrate with 2 % formic acid in methanol/2 % formic acid.
- Sample preparation: Dilute sample 1:1 with pH-adjusted buffer 2 or more pH units below the pKa of the analyte.
- Sample loading: Apply the samples to the columns at flow rates of 0.5-1 ml/min.
- Wash ccolumns with 2 % formic acid.
- Wash columns with methanol.
- Elute columns 5 % ammonium hydroxide in methanol.
- Evaporate sample to dryness under nitrogen.
- Reconstitute in appropriate solvent or solution.

SUPPORTED LIQUID EXTRACTION (SLE)

Suggested SLE protocol:

- Sample preparation: Dilute sample 1:1 with water or pH-adjusted buffer to neutralize the charge of the compound of interest. Neutralize the molecule according to the following:
 - For basic compounds, the neutral molecule exists at least 2 pH units below the pKa of the compound.
 - For acidic compounds, the neutral molecule exists at least 2 pH units above the pKa of the compound.
- Sample loading: Load diluted sample onto the SLE cartridge. Apply low positive pressure to initiate flow. Allow sample to pass onto the cartridge under gravity.
Leave for 5 minutes, to allow the aqueous sample to adsorb onto the support media.
- Elution: Apply extraction solvent at approximately 5 times the volume of the sample.
Leave to flow under gravity. Once flow has stopped, apply a low positive pressure to complete elution.
- Dry down: Evaporate sample to dryness and reconstitute in appropriate buffer for analysis.

Common elution solvent:

- Adding 5 % isopropanol may be appropriate for more polar compounds.
- Methyl tert-butyl ether (MTBE)
 - Dichloromethane (DCM)
 - Ethyl acetate (EtAc)
 - Hexane
 - Chloroform



GENERAL SLE COLUMN PARAMETERS

Volume	Adsorbent weight	Max. volume capacity of aq. solution	Waiting period before elution	Elution volume
1 ml	250 mg	0.25 ml	5 min	3 ml
3 ml	500 mg	0.5 ml	5 min	6 ml
6 ml	1 g	1 ml	5-10 min	8 ml

PHOSPHOLIPID REMOVAL PLATES (MAESTRO)

Suggested phospholipid removal protocol
Sample preparation (on column)

1. Add 50 µl of acetonitrile to each SPE column.
2. Attach a Luer seal to the column plate.
3. Add 200 µl of acetonitrile containing internal standard(s) to each column.
4. Add 100 µl of sample (standards, controls and patient samples) to each appropriate well.

Note: The sample/acetonitrile ratio is important for the proper precipitation of the proteins and for the interaction with the sorbent. If working with sample volumes less than 100 µl, add deionized water to the column to bring the final sample volume to 100 µl.

5. Mix the contents of the columns by vortexing (30 seconds) or by repeat aspirate-dispense steps (5 times if using a robotic liquid handler). Let the columns sit for 2 minutes at room temperature to complete precipitation of the proteins.

Extraction

6. Remove the Luer seal from the columns. Immediately place the columns over a 96-well collection plate on the Resolvex A200.
7. Apply pressure (do not exceed 5 psig) for 30 seconds. Collect the flow-through for analyze sample.

8. (Optional) Evaporate the extracts to dryness under nitrogen.

PROTOCOL FOR PROTEIN PRECIPITATION FROM SERUM OR PLASMA

Filter plate extraction ‘solvent first’ protocol

1. Place filter plate over collection plate.
2. Add 330 µl of 90:10 ACN:MeOH (cold) to each appropriate well of the filter plate.
3. Add 10 µl of internal standard to each appropriate well of the filter plate.
4. Add 100 µl of sample to each appropriate well of the filter plate.
5. Passively mix for 5 minutes.
6. Place filter plate/collection plate onto the Resolvex A200.
7. Apply pressure to gently push sample through filter.
8. Evaporate the extracts at room temperature until dry.
9. Dissolve the residues in 200 µl of 95:5 mobile phase A:mobile phase B. Vortex thoroughly.
10. Analyze sample

Filter plate extraction ‘sample first’ protocol

1. Place filter plate over collection plate.
2. Add 100 µl of sample to each appropriate well of the filter plate.

3. Add 10 µl of internal standard to each appropriate well of the filter plate.
4. Add 330 µl of 90:10 ACN:MeOH (cold) to each appropriate well of the filter plate.
5. Passively mix for 5 minutes.
6. Place filter plate/collection plate onto the Resolvex A200.
7. Apply pressure to gently push sample through filter.
8. Evaporate the extracts at room temperature until dry.
9. Dissolve the residues in 200 µl of 95:5 mobile phase A:mobile phase B. Vortex thoroughly.
10. Analyze sample

PROTOCOL: EXTRACTING ACIDIC COMPOUNDS WITH SAX SPE

1. (Optional) Condition/equilibrate with 5 % ammonium hydroxide in methanol/5 % ammonium hydroxide.
2. Sample preparation: Dilute sample 1:1 with pH-adjusted buffer 2 or more pH units above the pKa of the analyte.
3. Sample loading: Apply the samples to the columns at flow rates of 0.5-1 ml/min.
4. Wash columns with 5 % ammonium hydroxide.
5. Wash columns with methanol.
6. Elute columns with 2 % formic acid in methanol.
7. Evaporate sample to dryness under nitrogen.
8. Reconstitute in appropriate solvent or solution.

PROTOCOL: EXTRACTING ACIDIC COMPOUNDS WITH PKA ≤5 USING WAX SPE

1. (Optional) Condition/equilibrate with methanol/DI water (pH 6-7).
2. Sample preparation: Dilute sample 1:1 with buffer to achieve a pH of 6-7.
3. Sample loading: Apply the samples to the columns at flow rates of 0.5-1 ml/min.
4. Wash columns with 25mM ammonium acetate buffer pH 7.0.
5. Wash columns with methanol.

6. Elute columns with 5 % ammonium hydroxide in methanol. (Optional) Substitute elution solvent with 2 % formic acid in methanol to elute weak acids.
7. Evaporate sample to dryness under nitrogen.
8. Reconstitute in appropriate solvent or solution.

PROTOCOL: EXTRACTING BASIC COMPOUNDS WITH PKA >8 USING WCX SPE

1. (Optional) Condition/equilibrate with methanol/DI water (pH 6-7).
2. Sample preparation: Dilute sample 1:1 with buffer to achieve a pH of 6-7.
3. Sample loading: Apply the samples to the columns at flow rates of 0.5-1 ml/min.
4. Wash columns with DI water (pH 6-7).
5. Wash columns with methanol.
6. Elute columns with 2 % formic acid in methanol. (Optional) Substitute elution solvent with 5 % ammonium hydroxide in methanol to elute weak bases.
7. Evaporate sample to dryness under nitrogen.
8. Reconstitute in appropriate solvent or solution.

TRACE-N SPE PROTOCOL

1. Condition/equilibrate with methanol/DI water.
2. Sample preparation: Dilute sample 1:1 with water or pH-adjusted buffer to neutralize the charge of the compound of interest. Neutralize the molecule according to the following:
 - For basic compounds, the neutral molecule exists at least 2 pH units below the pKa of the compound.
 - For acidic compounds, the neutral molecule exists at least 2 pH units above the pKa of the compound.
3. Sample loading: Apply the samples to the columns at flow rates of 0.5-1 ml/min.
4. Wash columns with 5 % methanol.
5. Elute columns with methanol.
6. Evaporate sample to dryness under nitrogen.
7. Reconstitute in appropriate solvent or solution.



ResolveAtlas.

Resolve Atlas is a hydrophilic-lipophilic balanced polymeric sorbent with an N-vinylpyrrolidone-divinylbenzene copolymer. It provides selectivity for both polar and non-polar analytes, thus allowing the user to extract a variety of samples with ease. The divinylbenzene lipophilic backbone provides hydrophobic selectivity while the pyrrolidone hydrophilic chemistry will help increase interactions with polar functional groups of the analyte.

Applications:

- Small molecules and pharmaceutical drugs
- Sample preparation – for drug monitoring, drug screening, and steroid analysis workflows

- Life sciences/biopharma
- Food safety
- Environmental

- Chemical structures of sorbents (includes resin structure)**
- Resin chemistry – N-vinylpyrrolidone-divinylbenzene copolymer
 - Particle shape: spherical
 - pH stability: 1-14
 - Particle size: 30 and 60 μm
 - Pore size: 65 Å
 - Surface area: 750 m²/g

Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
30160523	1 ml	COLUMN ATLAS 60μm 1ML 30 MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30160524	96-well plate	PLATE RCH ATLAS 60μm 1ML 96 30 MG _1/EA		✓		✓	✓		✓
30160527	96-well plate	PLATE RCH ATLAS 60μm 1ML 30 MG _10PKS/CS		✓		✓	✓		✓
30160529	1 ml	COLUMN ATLAS 60μm 1ML 30 MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30163032	1 ml	COLUMN ATLAS 60μm 1ML 10 MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30163033	96-well plate	PLATE RCH ATLAS 60μm 1ML 96 10 MG _1/EA		✓		✓	✓		✓
30163037	96-well plate	PLATE RCH ATLAS 60μm 1ML 10 MG _10PKS/CS		✓		✓	✓		✓
30163039	1 ml	COLUMN ATLAS 60μm 1ML 10 MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30163862	1 ml	COLUMN ATLAS 30μm 1ML 30 MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30163863	1 ml	COLUMN ATLAS 30μm 1ML 30 MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30163864	96-well plate	PLATE RCH ATLAS 30μm 1ML 96 30 MG _1/EA		✓		✓	✓		✓

Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
30163865	96-well plate	PLATE RCH ATLAS 30μm 1ML 30 MG _10PKS/CS		✓		✓	✓		✓
30163871	1 ml	COLUMN ATLAS 30μm 1ML 10 MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30163872	96-well plate	PLATE RCH ATLAS 30μm 1ML 96 10 MG _1/EA		✓		✓	✓		✓
30163873	96-well plate	PLATE RCH ATLAS 30μm 1ML 10 MG _10PKS/CS		✓		✓	✓		✓
30163874	1 ml	COLUMN ATLAS 30μm 1ML 10 MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30165975	3 ml	COLUMN ATLAS 30μm 3ML 30 MG _100/PK	✓		✓			✓	
30165976	3 ml	COLUMN ATLAS 30μm 3ML 30 MG _1000/PK	✓		✓			✓	
30165979	3 ml	COLUMN ATLAS 30μm 3ML 60 MG _100/PK	✓		✓			✓	
30165980	3 ml	COLUMN ATLAS 30μm 3ML 60 MG _1000/PK	✓		✓			✓	
30168411	6 ml	COLUMN ATLAS 30μm 6ML 100 MG _100/PK	✓		✓			✓	
30168412	6 ml	COLUMN ATLAS 30 μm 6ML 100 MG _1000/PK	✓		✓			✓	
30168415	6 ml	COLUMN ATLAS 30μm 6ML 200 MG _100/PK	✓		✓			✓	
30168416	6 ml	COLUMN ATLAS 30μm 6ML 200 MG _1000/PK	✓		✓			✓	
30168419	6 ml	COLUMN ATLAS 60μm 6ML 100 MG _100/PK	✓		✓			✓	
30168420	6 ml	COLUMN ATLAS 60μm 6ML 100 MG _1000/PK	✓		✓			✓	
30168423	6 ml	COLUMN ATLAS 60μm 6ML 200 MG _100/PK	✓		✓			✓	
30168424	6 ml	COLUMN ATLAS 60μm 6ML 200 MG _1000/PK	✓		✓			✓	
30174229	NBE 96-well plate	PLATE NBE ATLAS 96 WELL 2.5 MG _1/EA		✓		✓	✓		✓
30174230	NBE 96-well plate	PLATE NBE ATLAS 96 2.5MG _10PKS/CS		✓		✓	✓		✓
30174231	NBE 1ml	COLUMN NBE ATLAS 2.5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30174232	NBE 1ml	COLUMN NBE ATLAS 2.5MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30174237	NBE 96-well plate	PLATE NBE ATLAS 96 WELL 5MG _1/EA		✓		✓	✓		✓
30174238	NBE 96-well plate	PLATE NBE ATLAS 96 5MG _10PKS/CS		✓		✓	✓		✓
30174239	NBE 1 ml	COLUMN NBE ATLAS 5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30174240	NBE 1 ml	COLUMN NBE ATLAS 5MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30176001	NBE 1 ml	COLUMN ATLAS 60μm 6ML 150MG _100/PK	✓		✓			✓	
30176002	NBE 1 ml	COLUMN ATLAS 60μm 6ML 150MG _1000/PK	✓		✓			✓	



Resolvev Atlas SCX.

Tecan's new addition to the Resolvev Atlas smart consumables family is a strong cation exchange chemistry using a balanced hydrophilic-lipophilic base resin.

Resolvev Atlas is a hydrophilic-lipophilic balanced polymeric sorbent with a N-vinylpyrrolidone-divinylbenzene copolymer.

Resolvev Atlas SCX incorporates this copolymer technology along with a strong cationic exchange chemistry to provide a focused clean-up when working with basic compounds in tough matrices.

In addition to the balanced copolymer technology, Resolvev Atlas SCX provides an additional chemistry that allows for strong retention of basic compounds.

- Resolvev Atlas SCX applications**
 - Basic small molecules and pharmaceutical drugs
 - Sample preparation for drug monitoring, screening, peptide clean-up, etc.
 - Biopharma/life science
 - Food safety
- Chemical structures of sorbents (include resin structure)**
 - Base resin chemistry: N-vinylpyrrolidone-divinylbenzene copolymer
 - Surface chemistry: sulfonic acid
 - Particle packing: monodisperse porous microsphere
 - pH stability: 1-14
 - Particle size: 30 µm
 - Pore size: 100 Å
 - Exchange capacity: 1.22 mEq/g

Part number	Format	Material description	Resolvev M10 48	Resolvev M10 96	Resolvev A100 48	Resolvev A100 96	Resolvev A200 96	Resolvev A200 24	Resolvev A200 Proteomics
30174700	96-well plate	PLATE RCH ATLAS SCX 30µm 1ML 10MG _1/EA		✓		✓	✓		✓
30174701	96-well plate	PLATE ATLAS SCX 30µm 1ML 10MG _10PKS/CS		✓		✓	✓		✓
30174702	1 ml	COLUMN ATLAS SCX 30µm 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓

Part number	Format	Material description	Resolvev M10 48	Resolvev M10 96	Resolvev A100 48	Resolvev A100 96	Resolvev A200 96	Resolvev A200 24	Resolvev A200 Proteomics
30174703	1 ml	COLUMN ATLAS SCX 30µm 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30174708	96-well plate	PLATE RCH ATLAS SCX 30µm 1ML 30MG _1/EA		✓		✓	✓		✓
30174709	96-well plate	PLATE ATLAS SCX 30µm 1ML 30MG _10PKS/CS		✓		✓	✓		✓
30174710	1 ml	COLUMN ATLAS SCX 30µm 1ML 30MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30174711	1 ml	COLUMN ATLAS SCX 30µm 1ML 30MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30174715	3 ml	COLUMN ATLAS SCX 30µm 3ML 30MG _1000/PK	✓		✓			✓	
30174718	3 ml	COLUMN ATLAS SCX 30µm 3ML 60MG _100/PK	✓		✓			✓	
30174719	3 ml	COLUMN ATLAS SCX 30µm 3ML 60MG _1000/PK	✓		✓			✓	
30174724	NBE 96-well plate	PLATE NBE ATLAS SCX 30µm 2.5MG _1/EA		✓		✓	✓		✓
30174725	NBE 96-well plate	PLATE NBE ATLAS SCX 30µm 2.5 MG _10PK/CS		✓		✓	✓		✓
30174726	NBE 1 ml	COLUMN NBE ATLAS SCX 30µm 2.5 MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30174727	NBE 1 ml	COLUMN NBE ATLAS SCX 30µm 2.5MG _960/PK	✓	✓	✓	✓	✓	✓	✓
30174732	NBE 96-well plate	PLATE NBE ATLAS SCX 30µm 5MG _1/EA			✓		✓	✓	
30174733	NBE 96-well plate	PLATE NBE ATLAS SCX 30µm 5MG _10PK/CS			✓		✓	✓	
30174734	NBE 1 ml	COLUMN NBE ATLAS SCX 30µm 5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30174735	NBE 1 ml	COLUMN NBE ATLAS SCX 30µm 5MG _960/PK	✓	✓	✓	✓	✓	✓	✓

Tecan Microparticulate Sorbents.

Tecan’s high quality, monodispersed microparticulate sorbents provide a large contact zone for analyte interaction and uniform sample flow. These unique sorbents are slurry packed to ensure a reproducible and robust product, and are available in various chemistries, from reverse phase to ion exchange, giving the user multiple options to best meet their sample prep needs and achieve removal of unwanted interfering compounds.

STRONG CATIONIC EXCHANGE CHEMISTRY

HP-SCX – 30 µ 65 Å

A mixed mode sorbent with both reverse phase and strong cation exchange chemistries. Its high surface area provides excellent capacity and a high selectivity for basic analytes. Ideal for drug monitoring, screening identification, confirmation and quantitation.

Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
427-0021NBE	NBE 96-well plate	PLATE NBE HPSCX 96 WELL 2.5MG _1/EA		✓		✓	✓		✓
427-0021NBEX	NBE 96-well plate	PLATE NBE HPSCX 96 WELL 2.5MG _10PKS/CS		✓		✓	✓		✓
427-0051NBE	NBE 96-well plate	PLATE NBE HPSCX 96 WELL 5.0MG _1/EA		✓		✓	✓		✓
427-0051NBEX	NBE 96-well plate	PLATE NBE HPSCX 96 WELL 5.0MG _10PKS/CS		✓		✓	✓		✓
427-0021RM-NBE	NBE 1ml	COLUMN NBE HPSCX 1ML 2.5MG _960/PK	✓	✓	✓	✓	✓	✓	✓
427-0021R-NBE	NBE 1 ml	COLUMN NBE HPSCX 1ML 2.5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
427-0051RM-NBE	NBE 1 ml	COLUMN NBE HPSCX 1ML 5.0MG _960/PK	✓	✓	✓	✓	✓	✓	✓
427-0051R-NBE	NBE 1 ml	COLUMN NBE HPSCX 1ML 5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
427-0506C	6 ml	COLUMN CEREX HPSCX 6ML 50MG _100/PK	✓		✓			✓	
427-0506M	6 ml	COLUMN CEREX HPSCX 6ML 50MG _1000/PK	✓		✓			✓	
427-0353C	3 ml	COLUMN CEREX HPSCX 3ML 35MG _100/PK	✓		✓			✓	



FNT – 15 µ 200 Å

A water-wettable polymer with SCX chemistry. It is ideal for aggressive matrix clean-up when working with basic drugs and analytes in biological samples and extracts.

Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
667-0101RCH	96-well plate	PLATE RCH CEREX FNT 1ML 96 10MG _1/EA		✓		✓	✓		✓
667-0101RCHX	96-well plate	PLATE RCH FNT 1ML 96 10MG _10PKS/CS		✓		✓	✓		✓
667-0101R	1 ml	COLUMN CEREX FNT 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓

PSCX – 15 µ 200 Å

An HP-SCX alternative with a water-wettable polymer, giving selectivity for bases and aggressive matrix clean-up. The smaller particle size provides additional value through increased efficiency.

Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
687-0021NBE	NBE 96-well plate	PLATE NBE PSCX 96 WELL 2.5MG _1/EA		✓		✓	✓		✓
687-0021NBEX	NBE 96-well plate	PLATE NBE PSCX 96 WELL 2.5MG _10PKS/CS		✓		✓	✓		✓
687-0051NBE	NBE 96-well plate	PLATE NBE CEREX PSCX 96 WELL 5MG _1/EA		✓		✓	✓		✓
687-0051NBEX	NBE 96-well plate	PLATE PSCX NBE 96 WELL 5MG _10PKS/CS		✓		✓	✓		✓
687-0021RM-NBE	NBE 1 ml	COLUMN NBE PSCX 1ML 2.5MG _960/PK	✓	✓	✓	✓	✓	✓	✓
687-0051RM-NBE	NBE 1 ml	COLUMN NBE PSCX 1ML 5MG _960/PK	✓	✓	✓	✓	✓	✓	✓
687-0051R-NBE	NBE 1 ml	COLUMN PSCX NBE 1/EA 1ML 5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
687-0101RCH	96-well plate	PLATE RCH CEREX PSCX 1ML 96 10MG _1/EA		✓		✓	✓		✓
687-0101RCH2X	96-well plate	PLATE RCH2 PSCX 1ML 96 10MG _10PKS/CS		✓		✓	✓		✓
687-0101RCH-48A	96-well plate	PLATE RCH CEREX PSCX 48 1ML 10MG _2/PK		✓		✓	✓		✓
687-0101RCHX	96-well plate	PLATE RCH PSCX 1ML 96 10MG _10PKS/CS		✓		✓	✓		✓



Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
687-0101RCHX-48A	96-well plate	PLATE RCH CEREX PSCX 48 1ML 10MG _20/PK		✓		✓	✓		✓
687-0101RCHX-48C	96-well plate	PLATE RCH CKRD PSCX 1ML 48 10MG _10PKS/CS		✓		✓	✓		✓
687-0101R	1 ml	COLUMN CEREX PSCX 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
687-0101RM	1 ml	COLUMN CEREX PSCX 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓

CLN II – 15 µ 200 Å

Specially designed strong cationic columns for aggressive clean-up of basic compound in larger sample volumes while maximizing capacity, allowing less sorbent to be used.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
691-0353	3 ml	COLUMN CEREX CLIN II 3ML 35MG _500/PK	✓		✓			✓	
691-0353C	3 ml	COLUMN CEREX CLIN II 3ML 35MG _100/PK	✓		✓			✓	
691-0353D-HC	3 ml	COLUMN CEREX CLIN II HC F. 3ML _500/PK	✓		✓			✓	
691-0353M	3 ml	COLUMN CEREX CLIN II 3ML 35MG _1000/PK	✓		✓			✓	
691-0506	6 ml	COLUMN CEREX CLIN II 6ML 50MG _500/PK	✓		✓			✓	
691-0506C	6 ml	COLUMN CEREX CLIN II 6ML 50MG _100/PK	✓		✓			✓	
691-0506M	6 ml	COLUMN CEREX CLIN II 6ML 50MG _1000/PK	✓		✓			✓	

Trace-B – 15 µ 200 Å

Specially designed strong cationic columns for aggressive clean-up of basic compound in larger sample volumes while maximizing capacity, allowing less sorbent to be used.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
711-0101R	1 ml	COLUMN CEREX TRACE-B 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
711-0101RM	1 ml	COLUMN CEREX TRACE-B 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓
711-0201R	1 ml	COLUMN CEREX TRACE-B 1ML 20MG _96/PK	✓	✓	✓	✓	✓	✓	✓



Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
711-0201RM	1 ml	COLUMN CEREX TRACE-B 1ML 20MG _960/PK	✓	✓	✓	✓	✓	✓	✓
711-0506C	6 ml	COLUMN CEREX TRACE-B 6ML 50MG _100/PK	✓		✓			✓	
711-0506M	6 ml	COLUMN CEREX TRACE-B 6ML 50MG _1000/PK	✓		✓			✓	
711-335C	3 ml	COLUMN CEREX TRACE-B 3ML 35MG _100/PK	✓		✓			✓	
711-335M	3 ml	COLUMN CEREX TRACE-B 3ML 35MG _1000/PK	✓		✓			✓	

Trace-J – 15 µ 80 Å

Strong cationic columns with small particle size and pore sizes, for aggressive clean-up of small basic compounds while maximizing capacity, allowing less sorbent to be used.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
709-0101RCHX	96-well plate	PLATE RCH TRACE-J 1ML 96 10MG _10PKS/CS		✓		✓	✓		✓
709-0101RM	1 ml	COLUMN CEREX TRACE-J 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓
709-0506C	6 ml	COLUMN CEREX TRACE-J 6ML 50MG _100/PK	✓		✓			✓	
709-0506M	6 ml	COLUMN CEREX TRACE-J 6ML 50MG _1000/PK	✓		✓			✓	
709-335C	3 ml	COLUMN CEREX TRACE-J 3ML 35MG _100/PK	✓		✓			✓	
709-335M	3 ml	COLUMN CEREX TRACE-J 3ML 35MG _1000/PK	✓		✓			✓	

WEAK CATIONIC EXCHANGE CHEMISTRY

HP-WCX – 30 µ

Polymer monodisperse weak cation exchange chemistry, used for retention of strong bases in biological fluids. Ideal for strong base extraction for drug monitoring, screening, identification, confirmation, and quantitation.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
30174770	96-well plate	PLATE RCH CEREX HPWCX 1ML 96 10MG _1/EA		✓		✓	✓		✓



Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
30174771	96-well plate	PLATE RCH CEREX HPWCX 1ML 10MG _10PK/CS		✓		✓	✓		✓
30174772	1 ml	COLUMN CEREX HPWCX 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30174773	1 ml	COLUMN CEREX HPWCX 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓

PWCX - 15 μ 85 Å

Polymeric, weak cation exchange chemistry for strong bases.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
675-0051NBE	NBE 96-well plate	PLATE CEREX PWCX NBE 96 WELL 5MG _1/EA		✓		✓	✓		✓
675-0051R-NBE	NBE 1 ml	COLUMN NBE CEREX PWCX 1ML 5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
30176110	96-well plate	PLATE RCH PWCX 1ML 96 20MG _10PKS/CS		✓		✓	✓		✓
675-0201RCH	96-well plate	PLATE RCH PWCX 1ML 96 20MG _1/EA		✓		✓	✓		✓
30176109	1 ml	COLUMN CEREX PWCX 1ML 20MG _960/PK	✓	✓	✓	✓	✓	✓	✓
675-0201R	1 ml	COLUMN CEREX PWCX 1ML 20MG _96/PK	✓	✓	✓	✓	✓	✓	✓

STRONG ANIONIC EXCHANGE CHEMISTRY

HP-SAX 20 μ 200 Å

Polymeric strong anion exchange chemistry.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
412-0021R-NBE	NBE 1 ml	COLUMN NBE HPSAX 1ML 2.5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
412-0051NBE	NBE 96-well plate	PLATE NBE HPSAX 96 WELL 5MG _1/EA		✓		✓	✓		✓



Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
412-0051NBEX	NBE 96-well plate	PLATE HPSAX NBE 96 WELL 5MG _10PKS/CS		✓		✓	✓		✓
412-0101R	1 ml	COLUMN CEREX HPSAX 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
412-0101RCH	1 ml	COLUMN CEREX HPSAX 1ML 10MG _1/EA	✓	✓	✓	✓	✓	✓	✓
412-0201R	1 ml	COLUMN CEREX HPSAX 1ML 20MG _96/PK	✓	✓	✓	✓	✓	✓	✓
412-0353C	3 ml	COLUMN CEREX HPSAX 3ML 35MG _100/PK	✓		✓			✓	
412-0353M	3 ml	COLUMN CEREX HPSAX 3ML 35MG _1000/PK	✓		✓			✓	
412-0401R	1 ml	COLUMN CEREX HPSAX 1ML 40MG _96/PK	✓	✓	✓	✓	✓	✓	✓
412-0401RCH	96-well plate	PLATE RCH CEREX HPSAX 1ML 96 40MG _1/EA		✓		✓	✓		✓
412-0401RCHX	96-well plate	PLATE RCH HPSAX 1ML 96 40MG _10PKS/CS		✓		✓	✓		✓
412-0401RM	1 ml	COLUMN CEREX HPSAX 1ML 40MG _960/PK	✓	✓	✓	✓	✓	✓	✓

PSAX 15 μ 80 Å

Mixed mode reverse phase with an anion exchanger for acidic compounds.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
615-0051NBE	NBE 96-well plate	PLATE NBE PSAX 96 WELL 5.0MG _1/EA		✓		✓	✓		✓
615-0051NBEX	NBE 96-well plate	PLATE NBE PSAX 96 WELL 5.0MG _10PKS/CS		✓		✓	✓		✓
615-0051RM-NBE	NBE 1 ml	COLUMN NBE PSAX 1ML 5.0MG _960/PK	✓	✓	✓	✓	✓	✓	✓
615-0101R	1 ml	COLUMN CEREX PSAX 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
615-0101RCH	96-well plate	PLATE RCH CEREX PSAX 1ML 96 10MG _1/EA		✓		✓	✓		✓
615-0101RCHX	96-well plate	PLATE RCH CEREX PSAX 1ML 10MG _10PKS/CS		✓		✓	✓		✓
615-0101RM	1 ml	COLUMN CEREX PSAX 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓
615-0353M	3 ml	COLUMN CEREX PSAX 3ML 35MG _1000/PK	✓		✓			✓	



PSAX-S 10 μ 80 Å

Silica-based anion exchange chemistry with chromatographic grade 10 μm material for maximum efficiency and capacity.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
606-0501R	1 ml	COLUMN CEREX PSAXS 1ML 50MG _96/PK	✓	✓	✓	✓	✓	✓	✓
606-0501RCH	96-well plate	PLATE RCH PSAXS 1ML 96 50MG _1/EA		✓		✓		✓	✓
606-0503C	3 ml	COLUMN CEREX PSAXS 3ML 50MG _100/PK	✓		✓		✓		
606-0503M	3 ml	COLUMN CEREX PSAXS 3ML 50MG _1000/PK	✓		✓		✓		

THC 15 μ 80 Å

Special anionic chemistry ideal for THC testing and drug monitoring.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
682-0101R	1 ml	COLUMN CEREX THC 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
682-0353	3 ml	COLUMN CEREX THC 3ML 35MG _500/PK	✓		✓			✓	
682-0353C	3 ml	COLUMN CEREX THC 3ML 35MG _100/PK	✓		✓			✓	
682-0353M	3 ml	COLUMN CEREX THC 3ML 35MG _1000/PK	✓		✓			✓	
682-0503	3 ml	COLUMN CEREX THC 3ML 50MG _500/PK	✓		✓			✓	
682-0503C	3 ml	COLUMN CEREX THC 3ML 50MG _100/PK	✓		✓			✓	
682-0506	6 ml	COLUMN CEREX THC 6ML 65MG _500/PK	✓		✓			✓	
682-0506C	6 ml	COLUMN CEREX THC 6ML 65MG _100/PK	✓		✓			✓	
682-0506M	6 ml	COLUMN CEREX THC 6ML 65MG _1000/PK	✓		✓			✓	



ETGS 10 μ 80 Å

Specialized silica-based anion exchange chemistry designed for ETG/ETS testing in biofluids.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
642-0501RCHX	96-well plate	PLATE RCH ETGS 1ML 96 50MG _10PKS/CS		✓		✓	✓		✓
642-0501RCH	96-well plate	PLATE RCH CEREX ETGS 1ML 96 50MG _1/EA		✓		✓	✓		✓
642-0501RM	1 ml	COLUMN CEREX ETGS 1ML 50MG _960/PK	✓	✓	✓	✓	✓	✓	✓
642-0501R	1 ml	COLUMN CEREX ETGS 1ML 50MG _96/PK	✓	✓	✓	✓	✓	✓	✓

REVERSE PHASE CHEMISTRY

WWP 15 μ 80 Å

Special polymeric water-wettable resin ideal for reverse phase retention without equilibration steps for aqueous samples.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
676-0201R	1 ml	COLUMN CEREX WWP 1ML 20MG _96/PK	✓	✓	✓	✓	✓	✓	✓
676-0353C	3 ml	COLUMN CEREX WWP 3ML 35MG _100/PK	✓		✓			✓	
676-0353M	3 ml	COLUMN CEREX WWP 3ML 35MG _1000/PK	✓		✓			✓	



WWP2 30 μ 65 Å

Next Gen WWP high surface area capacity, reverse phase for retention of aqueous samples without conditioning and equilibration steps.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
417-0051NBE	NBE 96-well plate	PLATE CEREX WWP2 NBE 96 WELL 5MG _1/EA		✓		✓	✓		✓
417-0051NBEX	NBE 96-well plate	PLATE NBE WWP2 96 WELL 5.0MG _10PKS/CS		✓		✓	✓		✓
417-0051R-NBE	NBE 1 ml	COLUMN NBE WWP2 1ML 5.0MG _96/PK	✓	✓	✓	✓	✓	✓	✓
417-0101RCH	96-well plate	PLATE RCH CEREX WWP2 1ML 10MG _1/EA		✓		✓	✓		✓
30163879	6 ml	COLUMN CEREX WWP2 6ML 200MG _100/PK	✓		✓			✓	
30163880	6 ml	COLUMN CEREX WWP2 6ML 200MG _1000/PK	✓		✓			✓	
30147136	3 ml	COLUMN WWP2 3ML 35MG _100/PK	✓		✓			✓	
30147142	3 ml	COLUMN WWP2 3ML 35MG _1000/PK	✓		✓			✓	
417-0101R	1 ml	COLUMN CEREX WWP2 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
417-0101RM	1 ml	COLUMN CEREX WWP2 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓

Trace-N 10 μ 80 Å

Silica C18 chemistry ideal for reverse phase retention of neutral and polar analytes. Microparticulate sorbent allows for maximized contact zone for optimal interaction and capacity.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
610-0101RCH	96-well plate	PLATE RCH TRACE-N 1ML 96 10MG _1/EA		✓		✓	✓		✓
610-0101RCHX	96-well plate	PLATE RCH TRACE-N 1ML 96 10MG _10PKS/CS		✓		✓	✓		✓
610-315C	3 ml	COLUMN CEREX TRACE-N 3ML 15MG _100/PK	✓		✓			✓	
610-315M	3 ml	COLUMN CEREX TRACE-N 3ML 15MG _1000/PK	✓		✓			✓	
610-0101R	1 ml	COLUMN CEREX TRACE-N 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
610-0101RM	1 ml	COLUMN CEREX TRACE-N 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓
610-0201R	1 ml	COLUMN CEREX TRACE-N 1ML 20MG _96/PK	✓	✓	✓	✓	✓	✓	✓
610-0201RM	1 ml	COLUMN CEREX TRACE-N 1ML 20MG _960/PK	✓	✓	✓	✓	✓	✓	✓



Trace-N20 15 μ 80 Å

Larger particle size, C18 resin to allow for extraction of more viscous samples while retaining the performance of its 10 μm counterpart.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
611-0051NBE	NBE 96-well plate	PLATE TRACE-N20 96 WELL NBE 5MG _1/EA		✓		✓	✓		✓
611-0051R-NBE	NBE 1 ml	COLUMN NBE TRACE-N20 5.0MG _96/PK	✓		✓			✓	
611-0101RCH	96-well plate	PLATE RCH TRACE-N20 1ML 96 10MG _1/EA		✓		✓	✓		✓
611-0101RCHX	96-well plate	PLATE RCH TRACE-N20 1ML 10MG _10PKS/CS		✓		✓	✓		✓
611-315M	3 ml	COLUMN CEREX TRACE-N20 3ML 15MG _1000/PK	✓		✓			✓	
611-0101R	1 ml	COLUMN CEREX TRACE-N20 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓

Maestro 10 μ 80 Å

Silica-based sorbent with C18 bonding in proprietary coverage. Uses a combination of filtration and sorbent interaction. Ideal for pass-through sample preparation technique to remove phospholipids, proteins, and particulates from sample matrix.

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
13-0051NBE	NBE 96-well plate	PLATE NBE MAESTRO-A 96 WELL 5MG_1/EA		✓		✓	✓		✓
613-0051R-NBE	NBE 1 ml	COLUMN NBE CEREX MAESTRO A 1ML 5MG_96/PK	✓	✓	✓	✓	✓	✓	✓
613-0151RCH	96-well plate	PLATE RCH CEREX MAESTRO 1ML 96 15MG_1/EA		✓		✓	✓		✓
613-0151RCHX	96-well plate	PLATE RCH MAESTRO 1ML 96 15MG _10PKS/CS		✓		✓	✓		✓
613-0151R	1 ml	COLUMN CEREX MAESTRO 1ML 15MG _96/PK	✓	✓	✓	✓	✓	✓	✓
613-0151RM	1 ml	COLUMN CEREX MAESTRO 1ML 15MG _960/PK	✓	✓	✓	✓	✓	✓	✓



PROPRIETARY BLEND FOR ORAL FLUID SAMPLES

OFX 30 μ

Proprietary blend of ion-exchange and water-wettable polymer targeted towards oral fluid collection devices.

Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
633-0031NBE	NBE 96-well plate	PLATE NBE OFX 96 WELL 3MG _1/EA		✓		✓	✓		✓
633-0031NBEX	NBE 96-well plate	PLATE NBE OFX 96 WELL 3MG _10PKS/CS		✓		✓	✓		✓
633-0031RM-NBE	NBE 1ml	COLUMN NBE OFX 1ML 3MG _960/PK	✓	✓	✓	✓	✓	✓	✓
633-0031R-NBE	NBE 1ml	COLUMN NBE OFX 1ML 3MG _96/PK	✓	✓	✓	✓	✓	✓	✓
633-0101R	1 ml	COLUMN CEREX OFX 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
633-0353C	3 ml	COLUMN CEREX OFX 3ML 35MG _100/PK	✓		✓			✓	

OFXQ 30 μ

Proprietary blend of ion-exchange and water-wettable polymer targeted towards oral fluid collection devices.

Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
635-0031NBE	NBE 96-well plate	PLATE NBE OFXQ 96 WELL 3MG _1/EA		✓		✓	✓		✓
635-0031NBEX	NBE 96-well plate	PLATE NBE OFXQ 96 WELL 3MG _10PKS/CS		✓		✓	✓		✓
635-0031RM-NBE	NBE 1ml	COLUMN NBE OFXQ 1ML 3MG _960/PK	✓	✓	✓	✓	✓	✓	✓
653-0031-NBE	NBE 1ml	COLUMN NBE OFXQ 1ML 3MG _96/PK	✓	✓	✓	✓	✓	✓	✓
635-0051NBE	NBE 96-well plate	PLATE NBE OFXQ 96 WELL 5MG _1/EA		✓		✓	✓		✓
635-0051NBEX	NBE 96-well plate	PLATE NBE OFXQ 96 WELL 5MG _10PKS/CS		✓		✓	✓		✓
635-0051RM-NBE	NBE 1ml	COLUMN NBE OFXQ 1ML 5MG _960/PK	✓	✓	✓	✓	✓	✓	✓



Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
635-0051R-NBE	NBE 1ml	COLUMN NBE OFXQ 1ML 5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
635-0101R	1 ml	COLUMN CEREX OFXQ 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
635-0101RCH	96-well plate	PLATE RCH CEREX OFXQ 1ML 96 10MG _1/EA		✓		✓	✓		✓
635-0101RCHX	96-well plate	PLATE RCH OFXQ 1ML 96 10MG _10PKS/CS		✓		✓	✓		✓
635-0101RM	1 ml	COLUMN CEREX OFXQ 1ML 10MG _960/PK	✓	✓	✓	✓	✓	✓	✓

OFQC 30 μ

Proprietary blend of ion-exchange and water-wettable polymer targeted towards oral fluid collection devices.

Part number	Format	Material description	Resolve M10 48	Resolve M10 96	Resolve A100 48	Resolve A100 96	Resolve A200 96	Resolve A200 24	Resolve A200 Proteomics
637-0051NBE	NBE 96-well plate	PLATE NBE OFQC 96 WELL 5MG _1/EA		✓		✓	✓		✓
637-0051NBC-HC	NBE 96-well plate	PLATE NBE OFQC 96WELL HC F. 5MG _1/EA		✓		✓	✓		✓
637-0051NBEX	NBE 96-well plate	PLATE NBE OFQC 96 WELL 5.0MG _10PKS/CS		✓		✓	✓		✓
637-0051RM-NBE	NBE 1ml	COLUMN CEREX OFQC 1ML NBE 5MG _960/PK	✓	✓	✓	✓	✓	✓	✓
637-0051R-NBE	NBE 1ml	COLUMN NBE OFQC 1ML 5MG _96/PK	✓	✓	✓	✓	✓	✓	✓
637-0101R	1ml	COLUMN CEREX OFQC 1ML 10MG _96/PK	✓	✓	✓	✓	✓	✓	✓
637-0101RCH	96 Well Plate	PLATE RCH CEREX OFQC 1ML 96 10MG _1/EA		✓		✓	✓		✓



Te-Fil Filtration Plates.

Te-Fil plates offer straightforward sample filtration for a broad range of applications. These cost-effective, convenient plates help to standardize processing and improve workflow reproducibility.

PRODUCT FEATURES

- Individually packed to minimize contamination
- Polypropylene
- 96-well format for simultaneous processing of multiple samples
- Suitable for automation

- Economical – savings in time, labor and solvents
- Multiple filter materials available for different applications

Chemical solvent compatibility

It is important to properly consider the compatibility of the filter with the chemicals used in your application. The following chart will help you to choose the right filter material for your workflow.

Chemical solvent	PTFE	Regenerated cellulose	Cellulose acetate	Glass fiber
Acetic acid	Y	N	N	Y
Acetone	Y	Y	N	Y
Acetonitrile	Y	Y	N	Y
Ammonia (25 %)	Y	P	N	Y
Dichloromethane/methylene chloride	Y	Y	N	Y
Ethanol	Y	Y	Y	Y
Ethyl acetate	Y	Y	N	Y
Ethylene glycol	Y	Y	P	Y
Formic acid	Y	P	N	Y
HCl	Y	N	N	Y



Chemical solvent	PTFE	Regenerated cellulose	Cellulose acetate	Glass fiber
Methanol	Y	Y	N	Y
Nitric acid (65 %)	Y	N	N	Y
Petroleum ether	Y	Y	Y	Y
Phosphoric acid	Y	N	N	Y
2-propanol	Y	Y	Y	Y
Sodium hydroxide (1M)	Y	P	N	P
THF (tetrahydrofuran)	Y	Y	N	Y
Toluene	Y	Y	N	Y
Trichloromethane	Y	Y	N	Y
Urea	Y	Y	Y	Y
Water	Y	Y	Y	Y

Y = compatible N = not compatible P = limited compatibility

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
30170918	96-well plate	TE-FIL PLATE FILTER GLASS FIBER 1UM		✓		✓	✓		✓
30170919	96-well plate	TE-FIL PLATE FILTER RC FILTER		✓		✓	✓		✓
30170920	96-well plate	TE-FIL PLATE FILTER PTFE FILTER .2UM		✓		✓	✓		✓
30170921	96-well plate	TE-FIL PLATE FILTER CELLULOSE .2UM		✓		✓	✓		✓



Te-SLE Supported Liquid Extraction Plate.

Te-SLE plates provide a convenient sorbent support to simplify liquid-liquid extractions. Using diatomaceous earth material, these plates offer an automation-friendly solution that improves throughput and reproducibility for a wide variety of workflows.

PRODUCT FEATURES

- Individually packed to minimize contamination
 - Elimination of emulsion commonly observed in liquid-liquid extraction
- Elimination of phase separation
 - Simple and easy operation
 - Fast and reproducible
 - Higher throughput, due to 96-well plate format and flow-through extraction suitable for automation
 - Ideal for viscous samples, including:
 - a. Biological samples, such as plasma, blood, etc.
 - b. Food
 - c. Environmental samples

Part number	Format	Material description	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A100 96	Resolvex A200 96	Resolvex A200 24	Resolvex A200 Proteomics
30170915	96-well plate	TE-SLE PLATE 150MG		✓		✓	✓		✓
30170916	96-well plate	TE-SLE PLATE 200MG		✓		✓	✓		✓

ADDITIONAL ACCESSORIES

	Part number	Description	Features	Unit
	30168479	Slotted spacer BGO Gold	Adapter with observation window	1/pc
	30168299	Rise high spacer BGO Red	Waste riser for positive pressure	1/pc
	30168481	Auto slide spacer BGO Gold	Adapter for automated use	1/pc
	30179631	Adapter Barrier Nesting 96-well plate Dark gray color	Adapter to allow for better fit	1/pc

Adapters will be needed to connect Te-Fil and Te-SLE plates to collection plates and positive pressure processors.

Instruments.

Resolvex A200.

Semi-automated positive pressure workstation with 8-channel liquid dispenser

Part number: 253-1160



Resolvex A200*

* NOTE: Not available in some regions.

The Resolvex A200 is an industry-leading, compact standalone system for automated positive pressure solid phase extraction (SPE).

Combining programmable dispensing of up to 11 solvents with innovative pressure control, it offers optimized sample preparation with minimal manual intervention. Implementation of positive pressure workflows leads to cleaner SPE samples, improving accuracy, precision and method robustness, as well as extending the lifetime of your analytical instrument. The system provides an automated processing solution for 96-well plates and 1 ml SPE columns. Its universal design offers the flexibility to work with SPE products from various providers, provide flexibility of processing small batches of samples if a 96 well plate is not needed, using multiple solvents to fit your existing laboratory workflows and reduce unnecessary waste.

APPLICATIONS

- Analyte clean-up and enrichment for therapeutic drug monitoring, drug screening and other clinical chemistry workflows
- Life sciences research
- Food safety testing
- Environmental monitoring

SOFTWARE UPDATE

- Preserved existing interface and functionality (able to turn on new features)
- Simplified and secure interface for 'production' users
- Established user roles
- Added functionality for archiving/importing methods
- Ability to create PDF report of method
- Ability to create 'production' methods
- Ability to tag favorite methods
- UI updates
- File encryption to prevent tampering in Microsoft Windows
- New file management form (batch actions, setting production methods)
- Kiosk mode for users

The Resolvex A200 workstation includes:

- Accessory kit
- Inline regulator
- Bottle staircase
- Resolvex A200 bottle kit assembly
- Installation kit assembly
- Consumables accessories

WEIGHT AND DIMENSIONS

Weight is approximately 84 lb/38.3 kg.
Dimensions are approximately 14.9" (378 mm)
W x 21.3" (542 mm) D x 23.6" (600 mm) H.
Shipping weight of the Resolvex A200 in its crate is
approximately 255 lb/116 kg.
Shipping crate dimensions are 25.5" (648 mm)
W x 45.8" (1162 mm) L x 34.5" (876 mm) H.

ELECTRICAL REQUIREMENTS

100-240 VAC @ 120W MAX for the provided AC-DC
power converter. Resolvex A200 96 input power is
24 VDC, 5A MAX.

TABLE/BENCH AND SPACE REQUIREMENTS

Adequate spacing and table support is
required for the Resolvex A200 96 to function
properly. Sufficient space must be available to
accommodate both the Resolvex A200 and

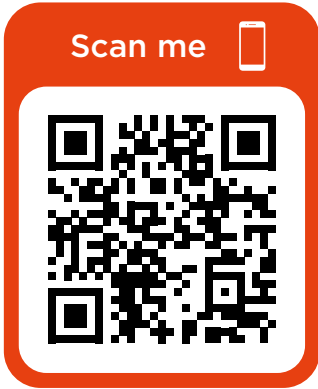
solvent bottles. The minimum recommended space
for operation in a fume hood with a solvent bottle
staircase and solvent lines is 28.0" (711 mm) W x
20.0" (508 mm) D x 25.0" (635 mm) H.
The minimum recommended space for standalone
snorkel operation of the same system is 28.0" (711
mm) W x 30.0" (762 mm) D x 25.0" (635 mm) H.
The Resolvex A200 and accessories should be
operated on a flat, stable surface able to support
the weight of the system.

ENVIRONMENTAL CONDITIONS

The Resolvex A200 96 is intended for indoor use
only at an ambient temperature of 15-32 °C
(59-90°F). The relative humidity (non-condensing)
should be between 30 and 80 %.

VIDEOS

Resolvex A200 animated
video (TBF)



Automated workstation



Operation video



Resolvex A100.

Semi-automated positive pressure workstation with single-channel liquid dispenser.

Part number: 253-0014 (Resolvex A100 48)
Part number: 253-0019 (Resolvex A100 96)



Resolvex A100 48



Resolvex A100 96

The Resolvex A100 is a compact, benchtop automa-
tion system for SPE sample preparation. Designed
to operate various methods with a single unit at the
touch of a button, its intuitive touchscreen ensures
easy operation and allows seamless integration into
your laboratory. The system provides an automat-
ed processing solution for 96-well plates or 1, 3 or
6 ml SPE cartridges. Its universal design offers the
flexibility to work with SPE products from various
providers, processing one to 96 samples per run
using multiple solvents to fit your existing methods
and laboratory workflow.

PRODUCT FEATURES

Available in 48- and 96-position formats. The
Resolvex A100 48 allows batch processing of up
to 48 individual 3 or 6 ml SPE cartridges, with an
optional 1 ml adaptor available. It also allows elution
directly into standard 12x32 mm autosampler vials for
a quick transition to LC-MS or GC-MS autosamplers.
The Resolvex A100 96 accommodates 96-well plates
or individual 1 ml columns.

Both models provide precise dispensing of up to
11 different solvents, and are compatible with most
aqueous buffer solutions and commonly used
organic solvents.

Multiple rack options and collection trays are
available, providing the flexibility to meet different
method requirements.

- Programmable, easy to use pressure profiles
provide precise, reproducible and robust results.
- Compatible with many brands of 96-well plates,
and flangeless 1, 3 and 6 ml SPE tubes.
- Safety light curtain minimizes risk of injury
to the user.
- High throughput processing for large batches
of samples.
- Flexibility to switch between solvents and
methods without switching bottles.
- Capable of processing one sample or up to
48/96 (Resolvex A100 48 or 96) samples
at once.

- Precise and reproducible automated solvent dispensing in multiple sample prep steps minimizes manual interventions.

APPLICATIONS

- Analyte clean-up and enrichment for therapeutic drug monitoring, drug screening and other clinical chemistry workflows
- Life sciences research
- Food safety testing
- Environmental monitoring

WEIGHT AND DIMENSIONS

Weight is approximately 90 lb/40.8 kg. Dimensions are approximately 18" (457 mm) W x 20" (508 mm) D x 33" (838 mm) H. Shipping weight of the Resolvex A100 in its crate is approximately 250 lb/113 kg. Shipping crate dimensions are 30.0" (762 mm) W x 24.0" (610 mm) L x 30.0" (762 mm) H.

ELECTRICAL REQUIREMENTS

100-240 VAC @ 120W MAX for the provided AC-DC power converter. Resolvex A100 input power is 24 VDC, 5A MAX.

TABLE/BENCH AND SPACE REQUIREMENTS

For the Resolvex A100 to function properly, adequate spacing and table support is required. Sufficient space must be available to accommodate both the Resolvex A100 and solvent bottles. The minimum recommended space for operation in a fume hood with a solvent bottle staircase and solvent lines is 30.0" (762 mm) W x 23.0" (584 mm) D x 33.0" (838 mm) H. The Resolvex A200 and accessories should be operated on a flat, stable surface able to support the weight of the system.

ENVIRONMENTAL CONDITIONS

The Resolvex A100 96 is intended for indoor use only at an ambient temperature of 15-32 °C (59-90°F). The relative humidity (non-condensing) should be between 30 and 80 %.

VIDEO



Resolvex M10.

Manual positive pressure processor

Part number: 288-0001 (Resolvex M10 96)
Part number: 288-0006 (Resolvex M10-XT 96)
Part number: 289-0004 (Resolvex M10 48)



Resolvex M10 48



Resolvex M10 96

The Resolvex M10 is a compact, positive pressure benchtop system for manual SPE sample preparation. Restricted flow on individual gas ports allows for passive pressure control for each well, ensuring consistent processing of all samples. The system requires minimal training, and is easy to operate as part of any laboratory workflow. Intuitive high/low pressure flow control enables the needs of various methods to be accommodated; the low pressure setting offers precise flow control, while the high pressure setting provides faster drying of the sorbent bed.

PRODUCT FEATURES

(Available in 48- and 96-position formats)

- The Resolvex M10 48 can accommodate up to 48 individual 1, 3 or 6 ml SPE cartridges. It also allows elution directly into sample injection vials for a quicker transition to LC-MS.

- The Resolvex M10 96 accommodates 96-well plates or individual 1 ml columns.
- Multiple racks and collection trays are available, providing the flexibility to meet different method requirements.
- Simplicity of operation – the Resolvex M10 combines ease of use with robustness for daily operation. It automatically adjusts to various plate heights, and its straightforward control minimizes the need for training.
- Positive pressure processing – pressure adjustment allows a smooth column flow to be quickly achieved. An intuitive flow toggle offers high and low pressure settings to ensure precise flow control.
- Uniform flow – individual flow restrictors in each channel ensure that even partially-filled plates or tube racks can be processed with minimal variation.

- Automation – the Resolvex M10 workstation can be integrated onto the Freedom EVO® platform through custom Tecan Labwerx™ projects.

APPLICATIONS

- Analyte clean-up and enrichment for therapeutic drug monitoring, drug screening and other clinical chemistry workflows
- Life sciences research
- Food safety testing
- Environmental monitoring

DIMENSIONS

Unit’s dimensions are approximately 13” W x 13.30” D x 18.41” H.

TABLE/BENCH AND SPACE REQUIREMENTS

The minimum space required is 10.2” (259 mm) W x 12.0” (305 mm) D x 15.4” (390 mm) H. There should be at least 4” (10 cm) free space above and behind the bench for ventilation. The system should be operated on a flat, stable table/bench able to support a weight of 26 lb/11.6 kg.

ENVIRONMENTAL CONDITIONS

The Resolvex M10 is intended for indoor use only at an ambient temperature of 15- 32 °C (59-90°F). The relative humidity (non-condensing) should be between 30 and 80 %.

VIDEOS

Manual workstations



Operation video



Instrument Comparison Chart.

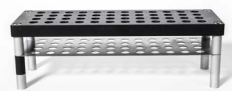
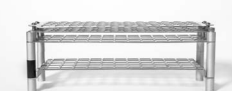
					
	Resolvex M10 48	Resolvex M10 96	Resolvex A100 48	Resolvex A 100 96	Resolvex A200
COLUMN FORMAT					
1 ml	✓	✓	✓	✓	✓
3 ml	✓	-	✓	-	-
6 ml	✓	-	✓	-	-
NBE	✓	✓	✓	✓	✓
96-well plate		✓		✓	✓
High reproducibility. Uniform column-to-column flow	✓	✓	✓	✓	✓
More convenient. No caps or plugs required for open column ports	✓	✓	✓	✓	✓
Easier to use. High pressure differential for viscous samples	✓	✓	✓	✓	✓
Reduced carry-over. Pressure-sealed column processing	✓	✓	✓	✓	✓
Manual processing	✓	✓	-	-	-
Semi-automated processing	-	-	✓	✓	✓
Fully integrated liquid handling	-	-	-	-	✓
Solvent dispersion channel	-	-	1	1	8
Automated pressure profile	-	-	✓	✓	✓

Instrument Accessories.

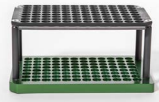
RESOLVEX A200

	Part number	Description
Column adaptors		
	30137227	Column Holder for 1 ml RCH plate, compatible with Greiner 96-well collection plates. RCB-G Support plate
	253-0007	Partial plate holder for NBE columns (generic)
	253-0006	Partial plate holder for 1 ml columns (generic)
Accessories		
	253-0037	Waste Disposal Spacer
	253-0040-SP	In-line Pressure Regulator
	253-0030	Staircase for Bottle Storage
	253-0099	Set of Bottles for buffers, compatible with Staircase
	278-0035-SP	Seal Column Removable Adhesive 96 Place
Consumables		
	253-0036-SP	Waste Barrier Insert (Long), Pack of 5

RESOLVEX A100-48

	Part number	Description
SPE rack		
	279-0021	SPE Rack to Fit 1 ml cartridges
	279-0022	SPE Rack to Fit 3 ml cartridges
	279-0023	SPE Rack to Fit 6 ml cartridges
Collection rack		
	279-0015	Collection Rack to Fit 12 x 75 mm tubes
	279-0016	Collection Rack to Fit 13 x 100 mm tubes
	279-0017	Collection Rack to Fit 16 x 100 mm tubes
	279-0018	Collection Rack to Fit 12 x 32 mm autosampler vials
Optional accessories		
	253-0040-SP	In-line Pressure Regulator
	279-0012-SP	Seal Column Removable Adhesive 48 Place
	253-0030	Staircase for Bottle Storage
	253-0099	Set of Bottles for buffers, compatible with Staircase
Consumables		
	279-0012-SP	Column Seal for 48 Place Systems

RESOLVEX A100-96

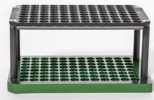
	Part number	Description
Column adaptors		
	253-0022	Column holder for 1 ml RCH plate, compatible with Greiner 96-well collection plates
	253-0023-SP	Column holder for 1 ml RCH plate, compatible with Nunc 96-well collection plates
	253-0007	Partial plate holder for NBE columns (generic)
	253-0006	Partial plate holder for 1 ml columns (generic)
	30137226	Partial plate holder for 1 ml columns, compatible with Greiner 96-well collection plates
	30150323	Spacer for NBE plates, for compatibility with Nunc collection plates
Accessories		
	253-0037	Waste Disposal Spacer
	253-0040-SP	In-line Pressure Regulator
	253-0030	Staircase for Bottle Storage
	253-0099	Set of Bottles for buffers, compatible with Staircase
	278-0035-SP	Seal Column Removable Adhesive 96 Place
Consumables		
	253-0036-SP	Waste Barrier Insert (Long), Pack of 5

RESOLVEX M10-48

	Part number	Description
Base unit		
	288-0004	Resolvev M10 Positive Pressure Processor for 1 ml, 3 ml and 6 ml Columns (48 Place)
SPE rack		
	279-0021	SPE Rack to Fit 1 ml cartridges
	279-0022	SPE Rack to Fit 3 ml cartridges
	279-0023	SPE Rack to Fit 6 ml cartridges
Collection rack		
	279-0015	Collection Rack to Fit 12 x 75 mm tubes
	279-0016	Collection Rack to Fit 13 x 100 mm tubes
	279-0017	Collection Rack to Fit 16 x 100 mm tubes
	279-0018	Collection Rack to Fit 12 x 32 mm autosampler vials
Optional accessories		
	253-0040-SP	In-line Pressure Regulator
	279-0012-SP	Seal Column Removable Adhesive 48 Place
	253-0029	Luer Seal Rack for 48 Place System

	Part number	Description
	279-0013	Waste Rack for 48 Place System (Includes 3x Waste Bin)
	279-0009	Waste Bin for 48 Place System, Pack of 3
	279-0012-SP	Column Seal for 48 Place Systems

RESOLVEX M10-96

	Part number	Description
Column adaptors		
	253-0022	Column holder for 1 ml RCH plate, compatible with Greiner 96-well collection plates
	253-0023-SP	Column holder for 1 ml RCH plate, compatible with Nunc 96-well collection plates
	253-0007	Partial plate holder for NBE columns (generic)
	253-0006	Partial plate holder for 1 ml columns (generic)
	30137226	Partial plate holder for 1 ml columns, compatible with Greiner 96-well collection plates
Accessories		
	253-0037	Spacer for waste, required for use of waste barriers
	253-0040-SP	In-line pressure regulator
	278-0300	Single well waste plate for 48-place system/96-place system, 300 ml, Pyramid bottom, Polypropylene, ANSI/SLAS
Consumables		
	253-0036-SP	Waste barrier insert (Long), Pack of 5
	278-0035-SP	Removable adhesive column seals

Spacers, Adaptors and Waste Barriers.



- 30137227 - RCB-G1 COLUMN HOLDER**
- Replacement for part number 253-0022
 - Used as a base plate for both the Cerex 96-well RCH and RCH 2 plates
 - For use with all Cerex plates
 - Used between the extraction plate and the collection/waste plates



- 253-0037 - WASTE DISPOSAL SPACER**
- Standard adapter supplied with every Resolvex A200 (two per unit)
 - Placed in waste collection plate
 - Holder for 253-0036-SP barrier waste, long, 96-well, to prevent cross-contamination



- 30168481 - AUTO SLIDE SPACER BGO GOLD**
- Adapter to connect half-skirted, 96-well plate with collection/waste plates
 - Specially designed and modified for automation
 - Can be used for all half-skirted plates, including Waters Oasis μ Elution plates



- 30168479 - SLOTTED BGO GOLD**
- Adapter to connect half-skirted, 96-well plate with collection/waste plates
 - Tighter fit, to be used for automation
 - Unique slotted design allows user to view the sorbent bed
 - Can be used for all half-skirted plates, including Waters Oasis μ Elution plates



- 30179631 ADAPTER BARRIER NESTING 96-WELL PLATE**
- Adapter to allow for a better fit onto collection/waste plates in the Resolvex A200 (**NOTE: it is now a DARK GRAY COLOR**)
 - Also very suitable for automation, as it reduces the precision required of the robotic arms
 - Excellent solution when the plate-to-plate fit is variable



- 30168299 RISE HIGH SPACER BGO RED**
- Adapter to provide additional height when using a microplate in the Resolvex A200, or if the stack is not high enough to make contact with the manifold
 - Holder for 253-0036 SP barrier waste, long



- 253-0036 SP BARRIER WASTE LONG 96 WELL**
- Used with the waste disposal spacer or high rise spacer
 - Helps eliminate cross-contamination
 - Helpful in bioanalytical, clinical, genomic purification, etc.

Example of high rise spacer and barrier waste set-up.



Note: may not be compatible with all plates

Additional Consumables.

COLLECTION PLATES AND MATS

Part number	Material description
253-0036-SP	BARRIER WASTE LONG 96 WELL 5/PK
253-0038-SP	BARRIER LOW PROFILE INSERT 96 WELL 5/PK
253-2002	SPACER COLLECTION PLATE 1/2IN STEP 1/EA
253-2002-025	SPACER COLLECTION PLATE 1/4IN STEP 1/PK
253-2003	MAT LUER SEAL PULL TAB _5/PK
278-0012-SP	PLATE PP DEEP WELL 1.2ML _1/EA
278-0013	PLATE 96 DEEP WELL 1.2ML _50/CS
278-0015	PLATE PP 96 WELL STRL. _50/PK
278-0016	PLATE 96 WELL ROUND 1.2ML PP _50/CS
278-0017	PLATE 96 WELL ROUND 1.2ML STRL _50/CS
278-0021	PLATE 96 WELL 2ML CONICAL PP _25/CS
278-0032	PLATE COLLECTION 24 WELL 10ML POLYP.
278-0034	PLATE PP 96 WELL NON-ANSI 1ML _1/EA
278-0060	MAT 96 WELL PRE-SLIT SILIC. BLANK _10/PK
278-0300	PLATE SINGLE WELL WASTE 300ML _1/EA
700-3002	MAT SILICONE 96 WELL ROUND _5/PK
700-3004	MAT 96 WELL PRE-SLIT SILICONE _10/PK
700-4001	PLATE 96 DEEP WELL 1.1ML _50/CS
700-4005	PLATE COLLECT. 24WELL 10ML SQ.VBTM._25/CS
700-4008	PLATE V-BOTTOM SOLID .5ML _80/CS
700-4009	RESERVOIR 96 WELL 300 ML PYRAMID _25/CS



VIALS AND CAPS

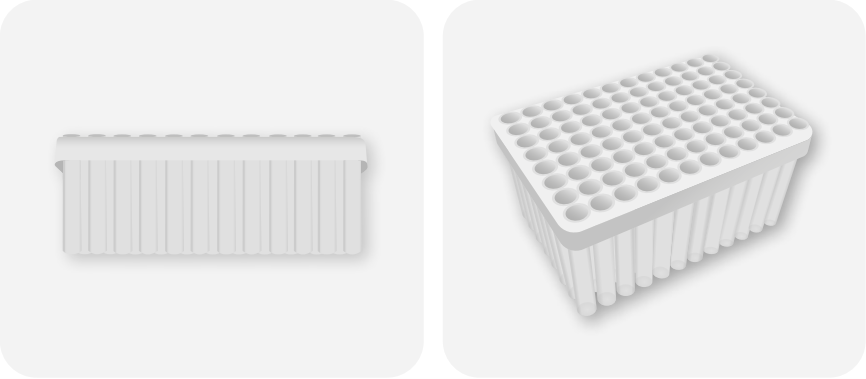
Part number	Material description
700-1001	CAP SCREW RED T/S SEPTUM 9MM _100/PK
700-1002	CAP SNAP T/S SEPTUM 11MM _100/PK
700-1003	CAP SCREW 9MM BLUE W. T/S SEPTUM _100/PK
700-1006	CAP SNAP T/S SEPTUM 11MM _2000/CS
700-2001	VIAL SCREW TOP 12x32MM 2ML 9MM _100/PK
700-2002	VIAL SCREW TOP 12x32MM CONIC. 9MM_100/PK
700-2003	VIAL CRIMP 12x32MM CONIC. 11MM _100/PK
700-2004	VIAL CRIMP TOP 12x32MM 2ML 11MM_100/PK
700-2005	VIAL SCREW TOP 12x32MM 2ML HC 9MM_100/PK
700-2006	VIAL SNAP CAP 12x32MM 11MM _100/PK
700-2008	VIAL SNAP TOP HIGH REC. 11MM _100/PK



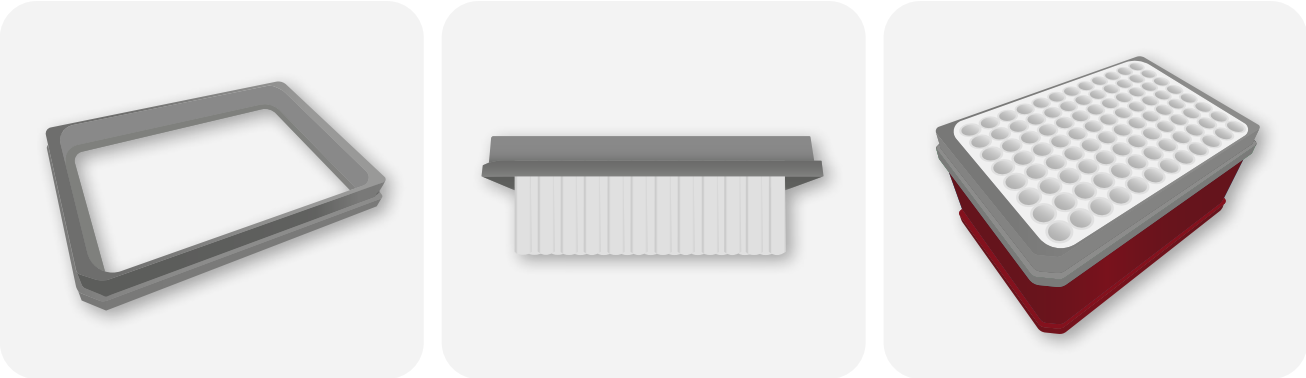
Tips on Usage.

1 ML CEREX FORMAT - PLATE

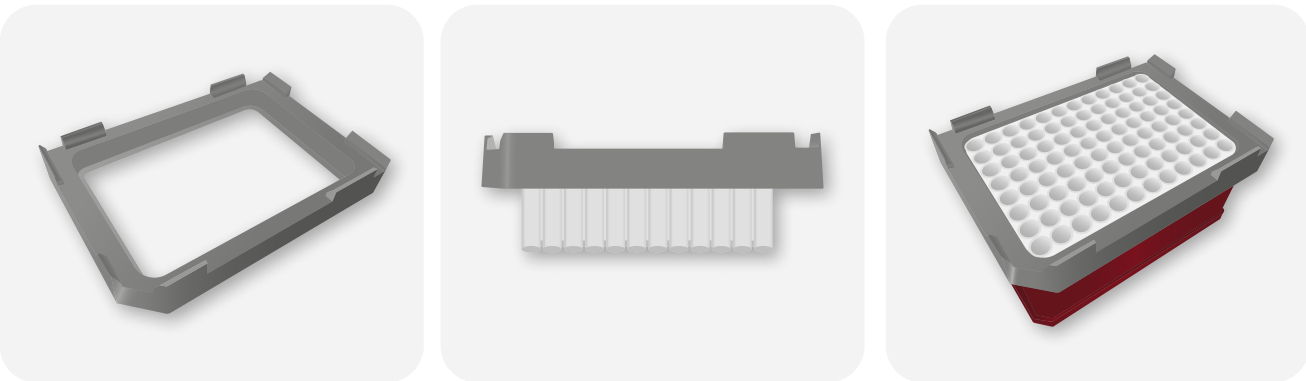
1. COLUMN GUARD. 253-0036-SP Waste Barrier Insert (Long), Pack of 5.



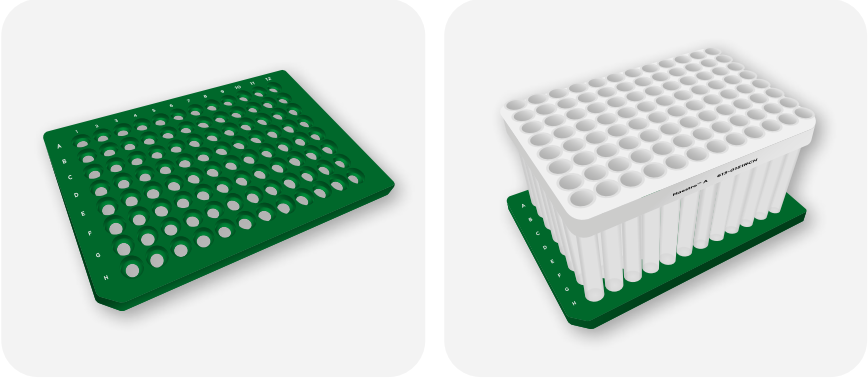
2a. (OPTION 1): WASTE DISPOSAL SPACER. 253-0037 Spacer for Waste, required for use of waste barriers.



2b. (OPTION 2): ADAPTED BARRIER NEST. 30179631 – Adapter Barrier Nesting required for use of waste barriers.



3. RCB + PLATE. RCB 30137227 – RCB-G1 (PLATE BASE RCB-G1 F. RIMLESS COLUMN).

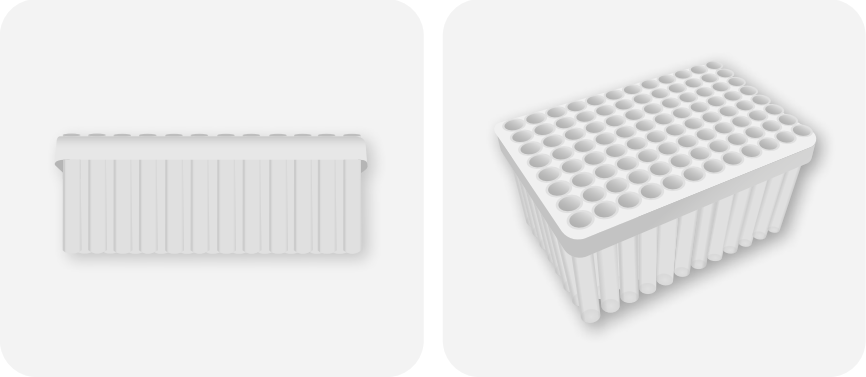


FINAL STACKS

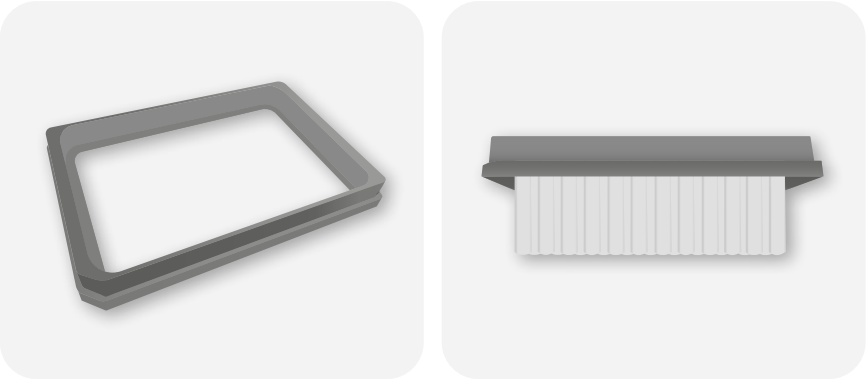


1 ML CEREX FORMAT - PARTIAL PLATE HOLDER

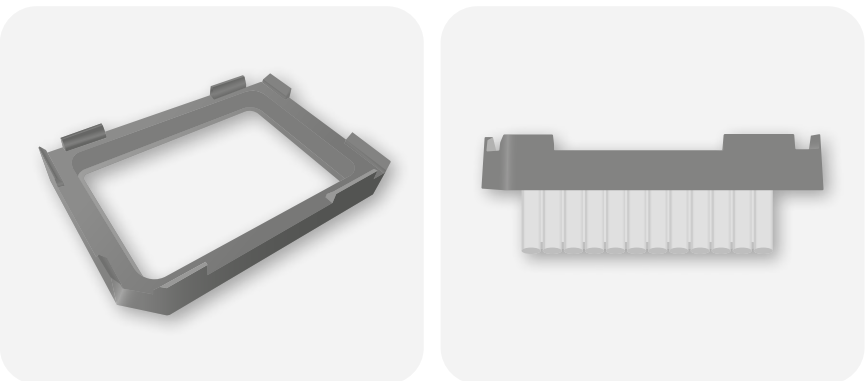
1. COLUMN GUARD. Waste Barrier (253-0036-SP Waste Barrier Insert (Long), Pack of 5).



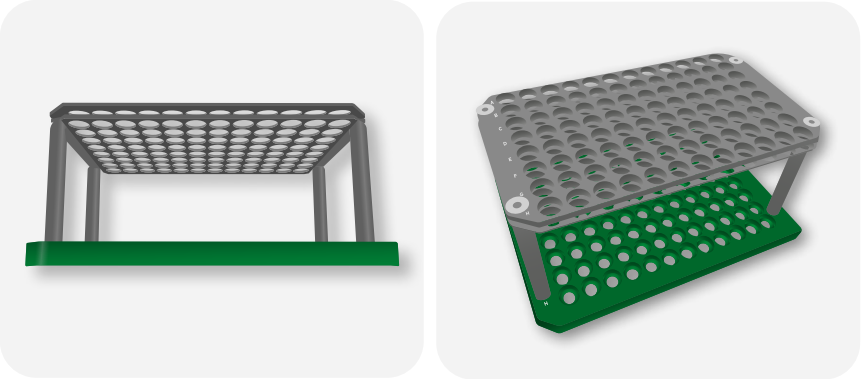
2a. (OPTION 1): WASTE DISPOSAL SPACER. 253-0037 Spacer for Waste, required for use of waste barriers.



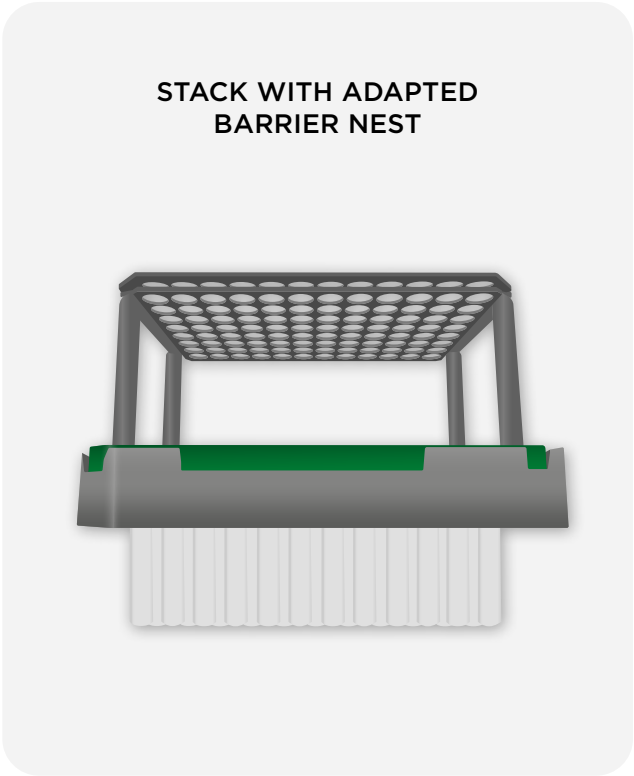
2b. (OPTION 2): ADAPTED BARRIER NEST. 30179631 - Adapter Barrier Nesting required for use of waste barriers.



3. COLUMN HOLDER FOR 1 ML RCH PLATE. 30137227 - compatible with Greiner 96-well collection plates.

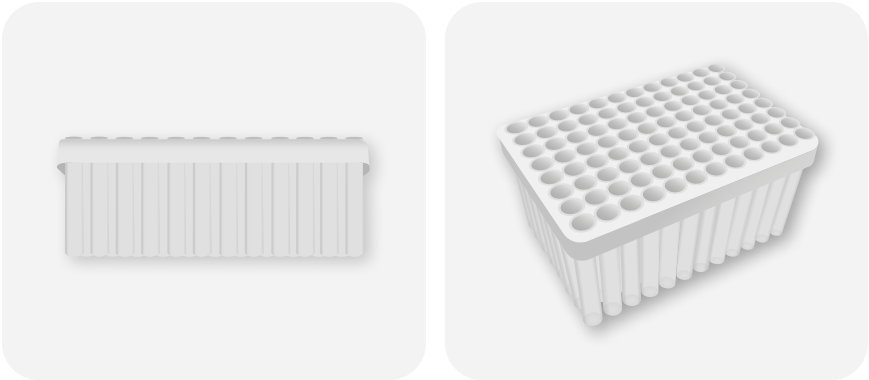


FINAL STACKS

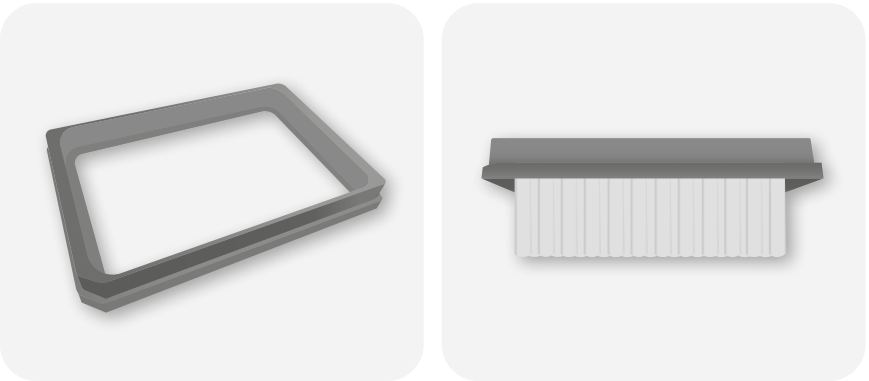


NBE AND CEREX FORMAT - PLATE OR FULLY SKIRTED COMPETITOR PLATES

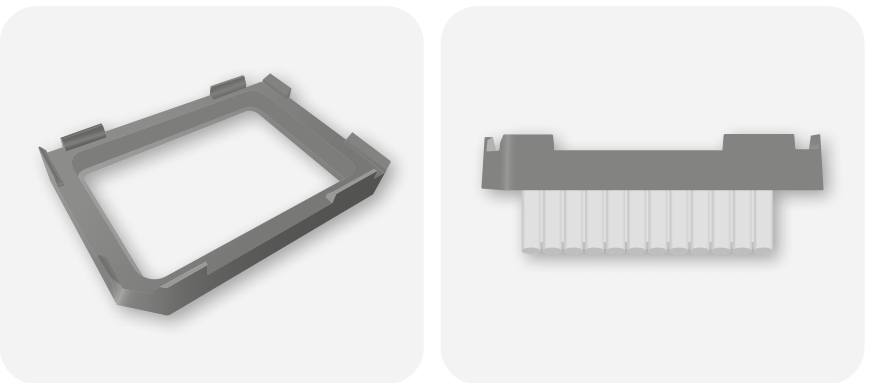
1. COLUMN GUARD. Waste Barrier (253-0036-SP Waste Barrier Insert (Long), Pack of 5).



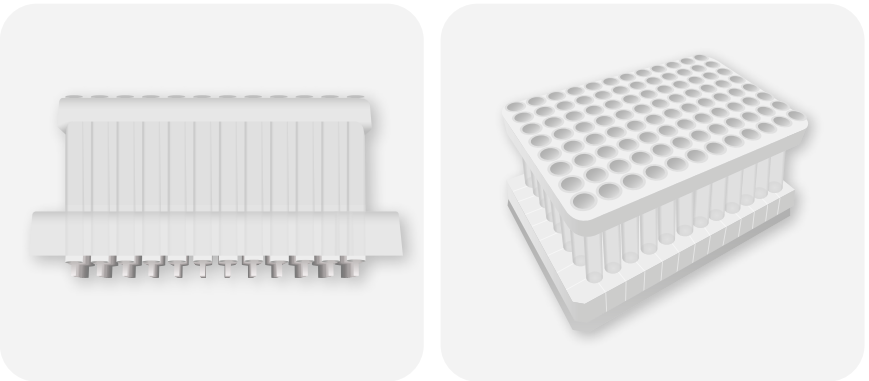
2a. (OPTION 1): WASTE DISPOSAL SPACER. 253-0037 Spacer for Waste, required for use of waste barriers.



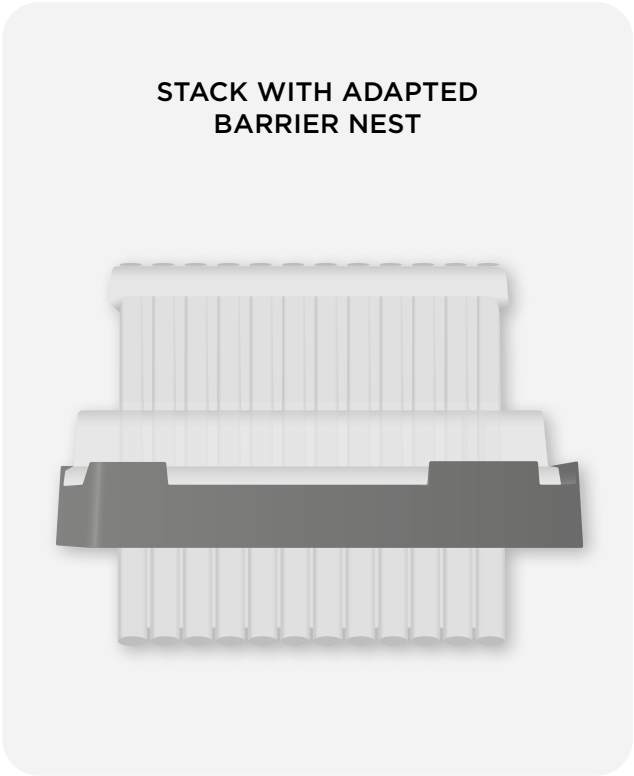
2b. (OPTION 2): ADAPTED BARRIER NEST. 30179631 – Adapter Barrier Nesting required for use of waste barriers.



3. NBE PLATE

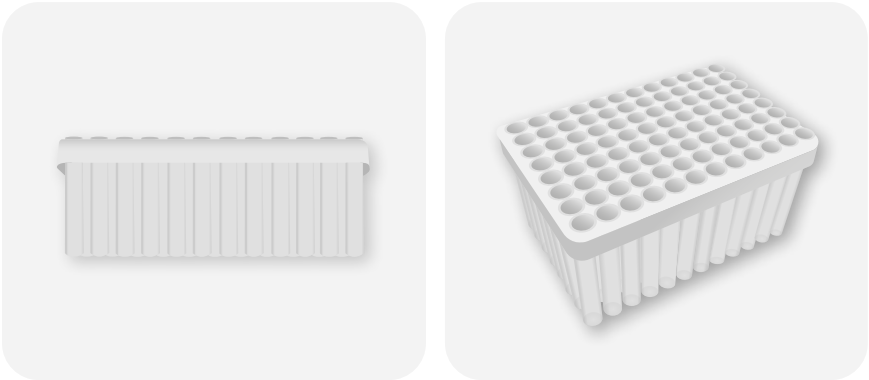


FINAL STACKS

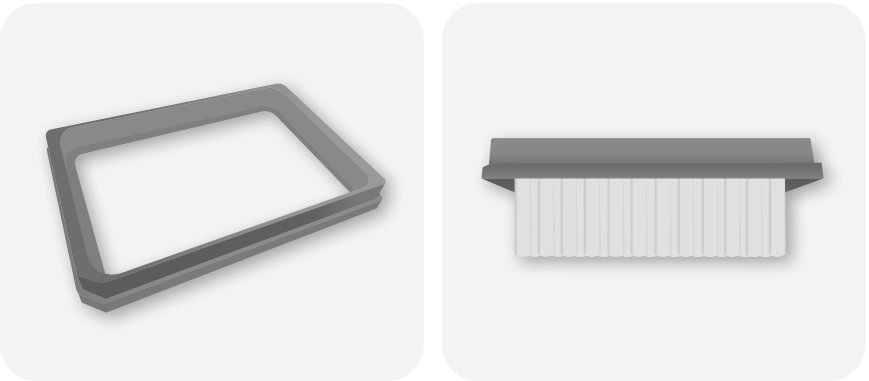


NBE AND CEREX FORMAT - PARTIAL PLATE HOLDER

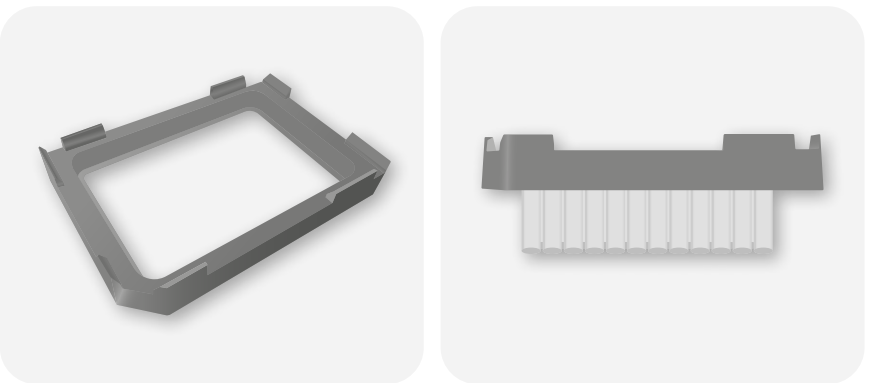
1. COLUMN GUARD. Waste Barrier (253-0036-SP Waste Barrier Insert (Long), Pack of 5).



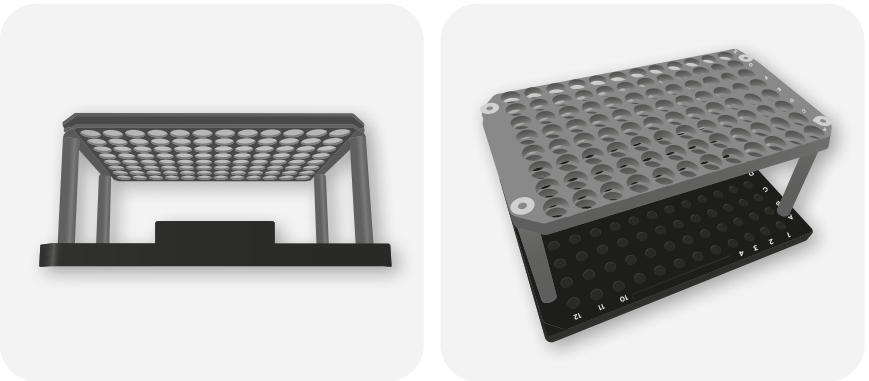
2a. (OPTION 1): WASTE DISPOSAL SPACER. 253-0037 Spacer for Waste, required for use of waste barriers.



2b. (OPTION 2): ADAPTED BARRIER NEST. 30179631 – Adapter Barrier Nesting required for use of waste barriers.



3. PARTIAL PLATE HOLDER. 253-0007 – Partial Plate Holder for NBE columns (generic).

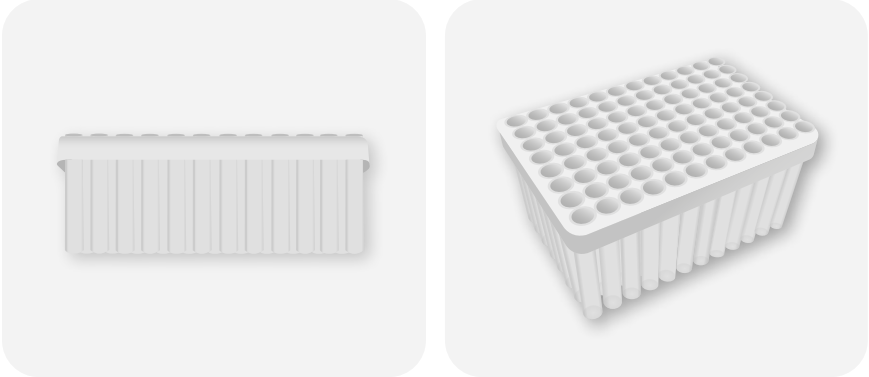


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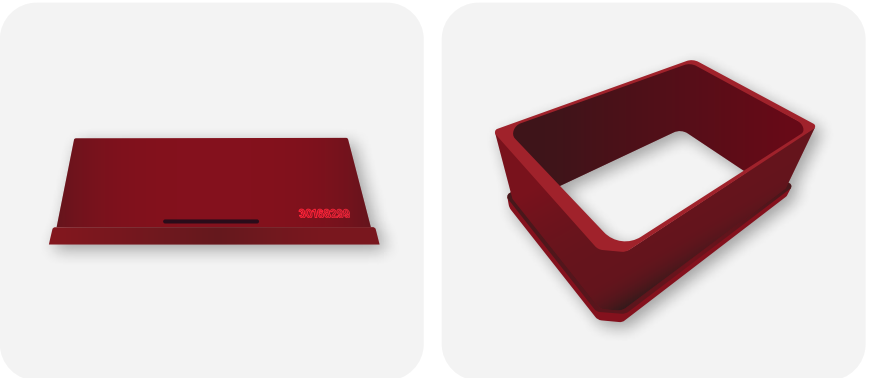


HALF-SKIRTED PLATE FORMAT

1. COLUMN GUARD. Waste Barrier (253-0036-SP Waste Barrier Insert (Long), Pack of 5).



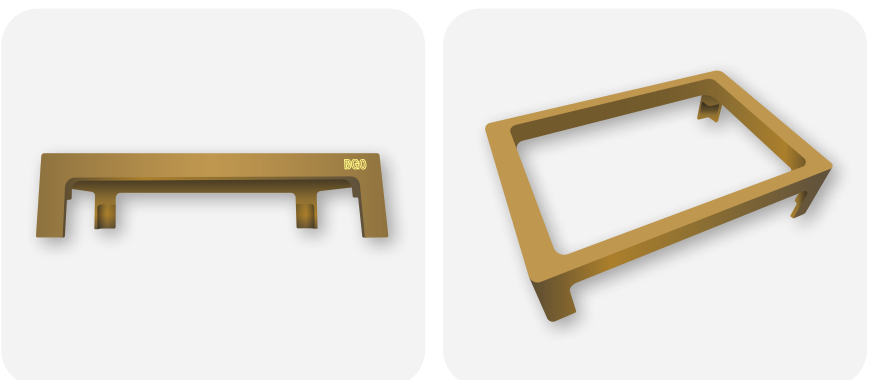
2. HIGH RISE WASTE. 30168299 - Rise high spacer BGO Red.



3. (OPTIONAL) ADAPTED BARRIER NEST.



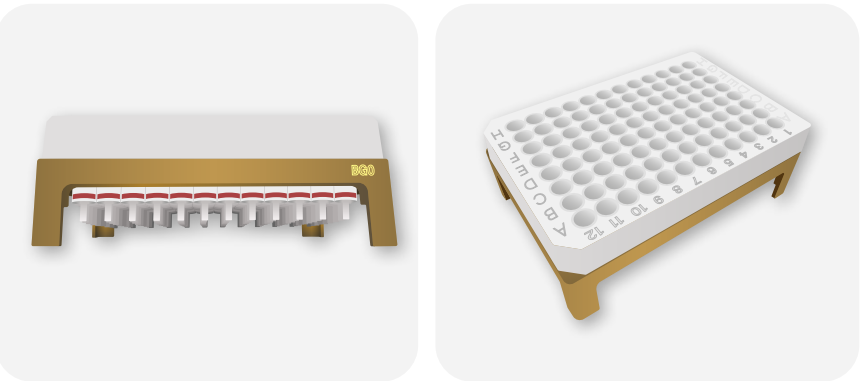
4a. GOLD SPACER. 30168479 - Slotted BGO Gold.



4b. GOLD SPACER. 30168481 - Auto Slide Spacer BGO Gold.

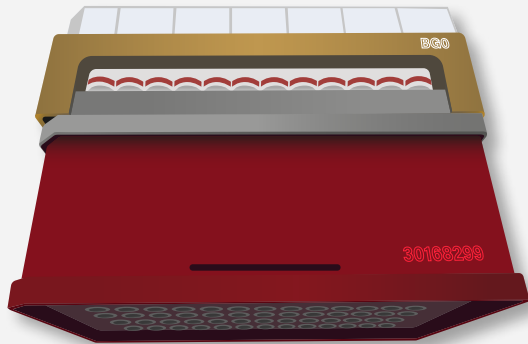


4c. HALF-SKIRTED PLATE.

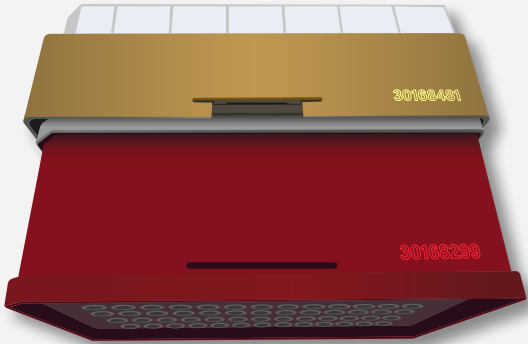


FINAL STACKS

STACK
WITH SLOTTED SPACER



STACK
WITH AUTO SLIDE SPACER



Te-Care Service.

Tecan is proud to present a complete range of service solutions for your instruments. **Te-Care** offers a worry-free, one-stop program to regularly maintain your instruments and extend the warranties on your systems. It provides a care-free and quality service to ensure the proper functioning of your instruments and prevent downtime in your workflow.

Te-Care service solutions are available for all Tecan positive pressure systems, including the Resolvex A200, the Resolvex A100, the Resolvex M10 and the Cerex IP8, with a rapid response time of less than 48 hours.

Te-Care comes in three offerings to best suit your needs:

- **Te-Care Complete** - a ONE STOP solution to address ALL of your concerns, from maintenance to unscheduled repairs

- **Te-Care Maintenance** - standard scheduled, on-site preventive care
- **Te-Care On-Demand** - on-demand service, paid for as needed



	Yearly on-site preventive maintenance* (with the exception of Resolvex M10 instruments)	On-site repairs in case of instrument failures** (with the exception of Resolvex M10 instruments)	Update installations***	Hotline support	48-hour on-site response time	Yearly scheduled preventive maintenance (in house at Tecan)	24-hour general response time
Te-Care Complete	•	•	•	•	•		•
Te-Care Maintenance	•		•	•		•	•

* All preventive maintenance work is outlined in the preventive maintenance check list, including travel costs, parts, labor costs and a full service report. Work will also include other instruments under the agreement.
** On-site repairs and maintenance in case of instrument failure includes parts, travel costs, labor, service repair checklist and service report. For the Resolvex M10 system, work will be conducted on site at Tecan and a loan system may be provided, if available, as needed. This will be shipped by UPS the next day, when your system is shipped to Tecan for repairs.
*** Installation updates are completed free of charge during scheduled preventive maintenance visits as they are released for use, including essential hardware, firmware or software updates. Non-Tecan software upgrades may not be included in the coverage.

TE-CARE TOTAL SERVICE SOLUTIONS

Instrument	Te-Care Complete	Te-Care Maintenance
Resolvex A200	30159872	30159878
Resolvex A100	30159875	30159879
Cerex IP8	30159876	30159880
Resolvex M10	30159877	30159881

TE-CARE ON-DEMAND

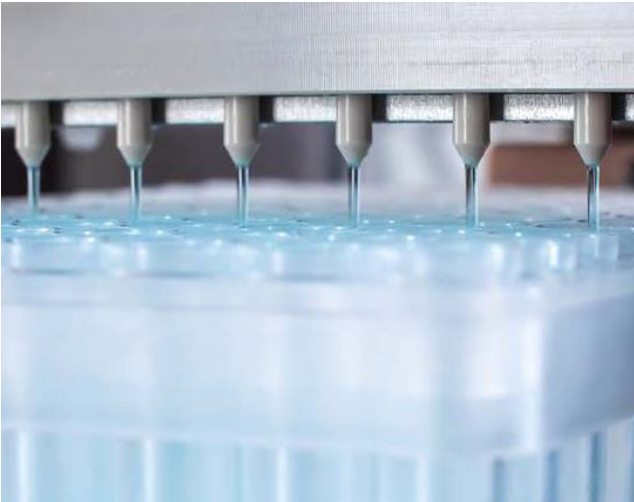
- Hourly rate
- Travel costs of the service engineer
- Cost of replacement parts, as required

FAQ

1. How long is my current Tecan warranty?
 - The warranty for our positive pressure systems is one year.
2. Why should I consider a service contract?
 - We look to provide a quality, cost-effective and worry-free solution to protect your investment. Proper maintenance from a reliable service engineer will prolong instrument lifetime, as well as minimize unscheduled downtime that can negatively impact workflows.
3. Are there any exceptions to the Te-Care Complete package?
 - There are no exceptions, however, limitations mean that Resolvex M10 system repairs and maintenance will be conducted in house at Tecan.
4. How do I choose between the different packages?
 - The choice is based purely on your needs, and there is a package to suit everyone.

5. What is the benefit of your service contracts?
 - We take great pride in the quality of our systems. The Te-Care programs help to prevent any unforeseen issues that can create a negative impact on your workflow.
6. What is preventive maintenance?
 - Preventive maintenance is scheduled maintenance that is regularly performed to keep your Tecan instruments in top condition. It will ensure proper operation, and reduce the likelihood of equipment failure, avoiding any unexpected downtime.
7. What if I want to have a multiyear contract?
 - No problem, please speak with your representative to find the best long-term contract solution to fit your needs.
8. What if I want to have more than one preventive maintenance visit per year?
 - Our service program was carefully designed to make sure your system will function properly and only includes one preventive maintenance visit per year.
 - If you feel that you need additional visits, please consult your representative and we will be happy to arrange it. Some additional costs might apply.

9. What is included in preventive maintenance?
 - Cleaning and greasing
 - Replacement of parts subject to wear and tear (such as column seals and syringes)
 - Adjustments with instrument-specific tests, as outlined in our preventive maintenance check list
 - Travel and labor costs (does not apply to the Resolvex M10 system, which is serviced in house at Tecan)
 - Service report
 - Multiple instrument checks can be performed during the same visit
10. Can I pay monthly or are there payment options?
 - This is a one-year contract paid in full.
11. Do I pay list price for parts if I have the Te-Care Maintenance plan or do I get a discount?
 - For Te-Care Complete customers, there will be a 10 % discount on all parts. Parts for Te-Care Maintenance and Te-Care On-Demand customers will remain at list price.



For Research Use Only - not for use in diagnostic procedures.

Tecan - Who we are

Tecan (www.tecan.com) helps to improve people's lives and health by empowering customers to scale healthcare innovation globally from life science to the clinic. Tecan is a pioneer and global leader in laboratory automation. As an original equipment manufacturer (OEM), Tecan is also a leader in developing and manufacturing OEM instruments, components and medical devices that are then distributed by partner companies. Founded in Switzerland in 1980, the company has more than 3,000 employees, with manufacturing, research and development sites in Europe, North America and Asia, and maintains a sales and service network in over 70 countries. Registered shares of Tecan Group are traded on the SIX Swiss Exchange (TECN; ISIN CH0012100191).

Australia +61 39 647 4100 **Austria** +43 62 46 89 330 **Belgium** +32 15 42 13 19 **China** +86 21 220 63 206 **France** +33 4 72 76 04 80
Germany +49 79 51 94 170 **Italy** +39 02 92 44 790 **Japan** +81 44 556 73 11 **Netherlands** +31 18 34 48 17 4 **Nordic** +46 8 750 39 40
Singapore +65 644 41 886 **Spain** +34 93 595 25 31 **Switzerland** +41 44 922 89 22 **UK** +44 118 9300 300 **USA** +1 919 361 5200 **Other countries** +41 44 922 81 11

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 **TECAN**