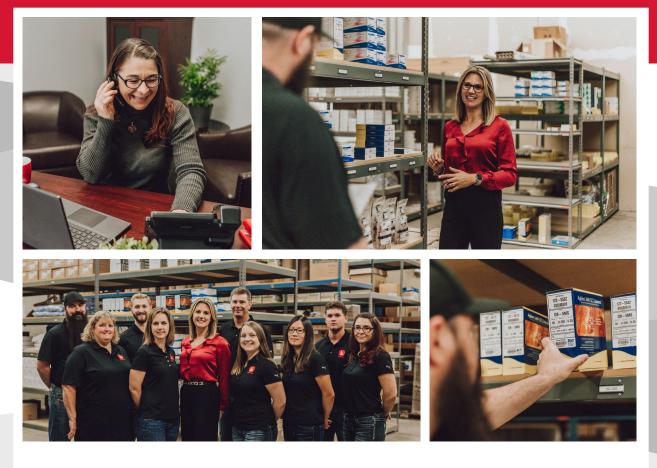


Drug Analysis Consumables Your Lab Needs



Your preferred supplier of chromatography instruments & consumables



Consumables You **NEED WHEN** You Need Them

Say goodbye to delayed orders and unresponsive vendors that can delay your projects and jeopardize your outcomes. Chrom Tech is a team of chromatography consumable specialists who expedite procurement of the supplies you need. Get back to the work that matters!

In the pages that follow, you'll see applications relating to drug analysis (e.g., Fentanyl and EtG/EtS), safety in the lab, and optimizing sample prep. As an authorized distributor of industry-leading manufacturers, we have supplies for all your toxicology and forensic needs. Purchase the consumables that help ensure successful analyses in any chromatography application.

Why Shop With Us?

- Responsive & Proactive OrderingWe listen with your future in mind.
- Self-Proclaimed Chromatography Nerds
 Product specialists, not just salespeople.
- Obsessed with Meeting Your Timelines
 More time doing work that matters.

WHAT'S INSIDE?

Restek Raptor EtG/EtS	3
Restek Raptor Biphenyl	4
Agilent Sample Preparation	6
Filtration	7
Chrom Tech Waste Container Kit	10
Microlab 600 Diluter/Dispenser	12
Vials	14
Small Benchtop Equipment	17



Your Chromatography Product Specialist

Hi, I'm Michelle Iverson, President of Chrom Tech. Tell us what you're trying to accomplish, and we'll help you know what to buy. We know that you're often up against a timeline, so our team works hard to get you what you need right away. For 40 years, Chrom Tech has been providing technical expertise to help you get the right supplies for your application - right on time.

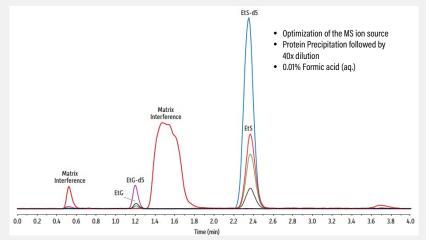


Strategies for the Analysis of EtG and EtS in Urine Resolving from Matrix Interferences

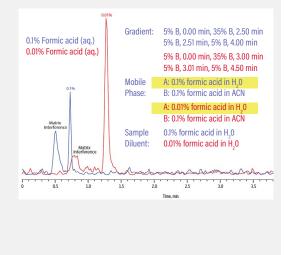
- Optimize instrument setup—MS ion source
- Optimize sample prep—Protein precipitation followed by dilution
- Reduce formic acid in aqueous mobile phase

RAPTOR ETG/ETS PRODUCTS		
PART NO	DESCRIPTION	
RTK-9325A12	Raptor EtG/EtS, 2.7 µm, 2.1 x 100 mm, ea	
RTK-25809	UltraShield UHPLC precolumn filter, 0.2 µm frit, ea	

The Raptor EtG/EtS column resulted in good sensitivity and separation for the analysis of EtG and EtS in urine with the combined analytical strategy:



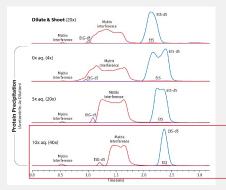
Improvement in EtG response by dropping the aqueous mobile phase concentration of formic acid from 0.1% to 0.01%



Optimization of MS Ion Source

It's important to recognize that optimized ionization source settings for highly organic mobile phases may not be optimal for the ionization of compounds that elute under high aqueous mobile phase conditions.

Impact of Sample Preparation on Retention and Peak Shape



When simple dilute and shoot sample preparation is not enough, protein precipitation followed by dilution can be useful.

Adding an aqueous dilution factor of 20x with 0.01% formic acid, and then ultimately 40x, significantly improved chromatographic performance, allowing for confident quantitation.









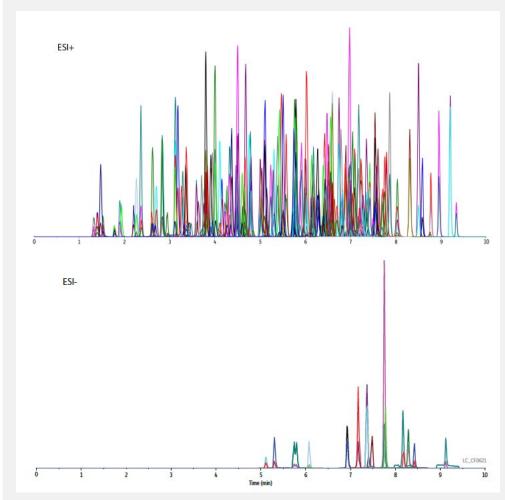
Restek[®] Raptor[™] Biphenyl

CHROM TECH[®]

"The Big Pain": Pain-Free Methods for Analyzing 231 Multiclass Drugs and Metabolites by LC-MS/MS

- → 231 compounds, 40+ isobars, 10 drug classes, 22 ESI-compounds in 10 minutes with 1 column
- Achieve excellent separation of critical isobars with no tailing peaks
- ➔ Run fast and reliable high-throughput LC-MS/MS analyses with increased sensitivity using simple mobile phases

Fast 10-minute analysis of 231 drugs and metabolites on a Raptor ™ Biphenyl column by LC-MS/MS



/M	S.			
Column		Raptor™ Biphenyl (RTK-9309A12) 100 mm x 2.1 mm ID		
Par	ticle Size:	2.7 µm		
Gua	rd Column:	Raptor™ Biphenyl EXP® 5mm, 2.1 mm ID, 2.7 μm (RTK-9309A0252)		
Terr	ıp.:	30 °C		
Sar	nple			
Dilu	ent:	Water		
lnj.	Vol	5 µL		
Mo	bile Phase			
A:		Water + 0.1% formic acid + 2mM ammonium fornate		
B:		Methanol + 0.1% formic acid + 2 mM ammonium fornate		
Det	ector	MS/MS		
lon	Mode:	ESI+/ESI-		
Мос	le:	Scheduled MRM		
Inst	trument	UHPLC		
Not				
1.		gative polarity data were collected from a single injection.		
2.	Ibuprofen, fosp in solution.	henytoin, and topiramate degrade quickly		
3.	Levorphanol and dextrophan are enantiomers and are not resolved.			
4.	Escitalopram is a pure enantiomer and citalopram is a racemic mixture of both enantiomers.			
5.	DMAA consists of 4 stereoisomers, 2 of which are partially resolved.			
6.	<i>cis/trans</i> isome	esmethyldoxepin consist of a mixture of ers. The isomers are fully resolved and the identifies the main isomer component.		

 Laornoxicam, meloxicam, etodolac, oxaprozin, indomethacin, and mefenamic acid can be detected by positive or negative polarity. The polarity chosen in this chromatogram provides optimal response.

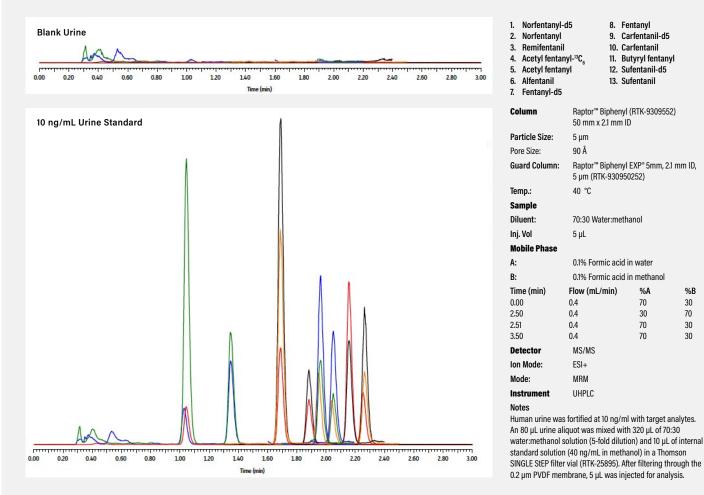
RESTEK® RAPTOR BIPHENYL PRODUCTS	
PART NO	DESCRIPTION
RTK-9309A12	Restek Raptor Biphenyl, 100 mm x 2.1 mm ID, 2.7 µm
RTK-9309A0252	Restek Raptor Biphenyl EXP Guard Column Cartridge
RTK-25808	Restek EXP Guard Cartridge Holder includes fitting & ferrules



Analysis of Fentanyl and Its Analogues in Human Urine by LC-MS/MS

- Simple dilute-and-shoot method for quantitative analysis
- -Fast, 3.5-minute analysis of fentanyl and related compounds
- Rugged and sensitive with acceptable accuracy and precision for urine samples

The Raptor Biphenyl column effectively separated all target compounds in urine with no observed matrix interferences.



INSIDE THE APP





RESTEK® RAPTOR BIPHENYL PRODUCTS		
PART NO	DESCRIPTION	
RTK-9309552	Restek Raptor Biphenyl, 50 mm x 2.1 mm ID, 5 µm	
RTK-930950252	Restek Raptor Biphenyl EXP Guard Column Cartridge	
RTK-25808	Restek EXP Guard Cartridge Holder includes fitting & ferrules	



%В

30

70

30

30

Agilent® Sample Preparation

CHROM TECH[®]

Analysis of Synthetic Fentanyl Opioids in Serum using Captiva EMR-Lipid Sample Preparation by LC-QTOF

Compound

Confirmation

- → Highly selective, efficient lipid/matrix removal without analyte loss
- → Removes lipids based on size exclusion and hydrophobic interaction
- ➔ Ensure minimal ion suppression of target analytes

Single Stage MS (TOF/Q-TOF)

or

Tandem MS/MS (Q-TOF)

and Library, and compound quantitation.

LC

Separation

Captiva EMR eluant was dried under nitrogen and reconstituted in starting gradient conditions.



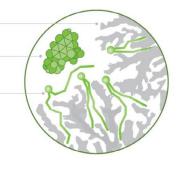
QTOF targeted/untargeted screening workflow which begins with an LC separation, followed by data acquisition in single stage MS or tandem MS/MS mode, followed by compound confirmation using Mass Hunter Qualitative Software in conjunction with the Personal Compound Database

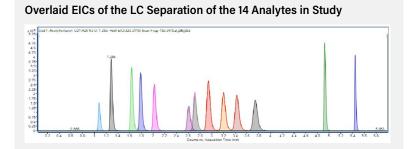
Size exclusion - Unbranched hydrocarbon chains (lipids) EMR sorber enter the sorbent; bulky analytes do not

Compound

Quantitation

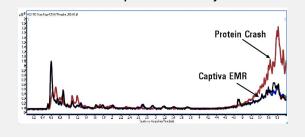
Sorbent chemistry - Lipid chains that enter the sorbent are trapped by hydrophobic lipid interactions





AGILENT CAPTIVA EMR-LIPID			
PART NO	DESCRIPTION	QTY	
5190-1002	Captiva EMR-Lipid, 1 mL, 40 mg	100/pk	
5190-1000	Captiva EMR-Lipid, 1 mL, 96 well-plate, 40 mg	ea	
5190-1001	Captiva EMR-Lipid, 1 mL, 96 well-plate, 40 mg	5/pk	
5190-1003	Captiva EMR-Lipid, 3 mL, 300 mg	100/pk	
5190-1004	Captiva EMR- Lipid, 6 mL, 600 mg	50/pk	

Protein Crash vs. Captiva EMR Overlay



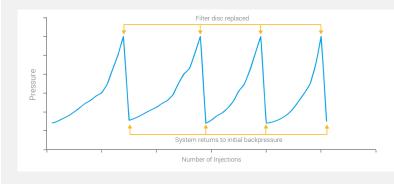


Filtration

Agilent InfinityLab Inline Filter

- → Less particles clogging the column means more uptime
- Replace filter discs in less time, with a touchless design to avoid contamination
- 100+ replacements with the InfinityLine holder vs. only a few with standard inline filters means lower operational costs
- No risk of leaks or over-tightening which reduces troubleshooting time in the lab, a click sound tells you when the filter is tight up to 1300 bar

Accelerated lifetime test shows how inline filter captures particles.



Touchless packaging to avoid potential contamination

Uniquely designed packaging lets you insert the filter disc into filter housing without touching it to avoid potential contamination.

AGILENT INLINE FILTER ASSEMBLIES		
PART NO	DESCRIPTION	
5067-1603	InfinityLab Quick Change inline filter assembly for UHPLC (incl. 5 filter discs 2.1 mm ID, 0.2 µm porosity), with 90 mm flexible capillary	
5067-1602	InfinityLab Quick Change inline filter assembly for HPLC (incl. 5 filter discs 4.6 mm ID, 0.5 µm porosity), with 90 mm flexible capillary	
5067-1610	Filter discs, 2.1 mm ID, 0.2 µm porosity, 5/pk	
5067-1611	Filter discs, 2.1 mm ID, 0.5 µm porosity, 5/pk	
5067-1612	Filter discs, 4.6 mm ID, 0.2 µm porosity, 5/pk	
5067-1613	Filter discs, 4.6 mm ID, 0.5 µm porosity, 5/pk	
5067-1614	Filter discs, 4.6 mm ID, 2.0 µm porosity, 5/pk	

Chrom Tech Syringe Filters

SYRINGE FILTERS (100/PK)							
MEMBRANE	AQUEOUS	ORGANIC	LOW Protein Binding	COLOR	PORE SIZE	13 mm	30 mm
Nylon					0.2 µm	F13-NY020	F30-NY020
	•	•			0.45 µm	F13-NY045	F30-NY045
PTFE (hydrophobic)					0.2 µm	F13-PT020	F30-PT020
(polytetrafluoroethylene)		•			0.45 µm	F13-PT045	F30-PT045
PVDF (hydrophilic)					0.2 µm	F13-PV020	F30-PV020
(polyvinylidene difluoride)	•	•	•		0.45 µm	F13-PV045	F30-PV045
PES					0.2 µm	F13-PS020	F30-PS020
(polyethersulfone)	•	•	•		0.45 µm	F13-PS045	F30-PS045
CA					0.2 µm	F13-CA020	F30-CA020
(cellulose acetate)	•		•		0.45 µm	F13-CA045	F30-CA045
PP					0.2 µm	F13-PP020	F30-PP020
(polypropylene)	-	•			0.45 µm	F13-PP045	F30-PP045
Glass Fiber					1.2 µm	F13-GF120	F30-GF120
	-	•			0.7 µm	F13-GF070	F30-GF070



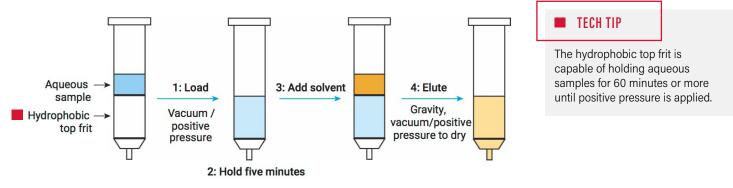
SPECIFICATIONS	;
Effective Filtration Area:	13 mm: 1.09 cm ² 30 mm: 5.39 cm ²
Holdup Volume:	13 mm: <25 μl 30 mm: <200 μl
Sample Volume:	13 mm: < 10 mL 30 mm: < 200 mL
Inlet/Outlet Connections:	Female luer lock inlet, male slip luer outlet
Max Temperature:	122 °F (50 °C)
Max Pressure:	87 PSI at 20 °C



CHROM TECH[®]

Drug of Abuse Analysis in Human Urine Using Agilent Chem Elut S Supported Liquid Extraction by LC/MS/MS

Agilent Chem Elut S Workflow



TECH TIP

When loading sample, apply 2-3 PSI pressure to drive the aqueous sample in to the sorbent until no visible liquid is left in the wells.

INSIDE THE APP



Scan the QR code to view the entire app note, which demonstrates the use of Agilent's new sample preparation product Chem Elut S 96-well plates for the quantitative analysis of 24 drugs of abuse (DOAs) in human urine by LC/MS/MS.

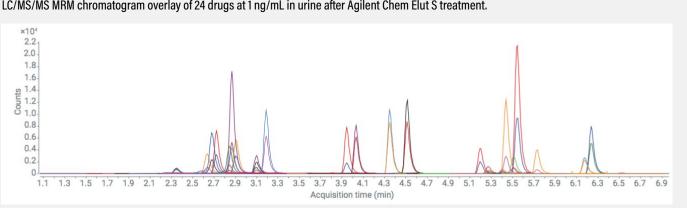
Sample Preparation Procedure

Load the aqueous sample into the Chem Elut S (plate or cartridge) with gentle positive pressure.



DESCRIPTION
Cerex System 48-II Positive Pressure Processor
Cerex System 96 Processor, includes gas supply adapter and sealing gasket

AGILENT SYNTHETIC CHEM ELUT S			
PART NO	DESCRIPTION		
5610-2003	2 mL, Chem Elut S 96-well plate, 200 µL sample		
5610-2004	2 mL, Chem Elut S 96-well plate, 400 µL sample		
5610-2005	1 mL Chem Elut S tube, 200 µL, 100/pk		
5610-2006	3 mL Chem Elut S tube, 400 µL, 100/pk		
2610-2007	6 mL Chem Elut S tube, 1 mL sample, 100/pk		
WELL PLATE ACC	ESSORIES		
96-6009	2 mL, square, 96 well plate, rimmed, 50/cs		
96-0662	Pierceable cap mat for 2 mL square, 50/pk		
BST-9790	2 mil PTFE sealing tape		



LC/MS/MS MRM chromatogram overlay of 24 drugs at 1 ng/mL in urine after Agilent Chem Elut S treatment.

2	Equilibrate the sample in Chem Elut S sorbent for five minutes.
---	-----------------------------------------------------------------

- 3 Add a water immiscible solvent mixture to extract the analytes.
- 4. Elute the organic solvent with gravity, then applying positive pressure vacuum to drain the plate. It is better to do two elution steps in smaller volumes than a single large volume elution.
- 5. Evaporate and reconstitute in initial mobile phase conditions for LC/MS/MS analysis.

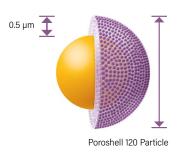


CONCENTRATORS & EVAPORATORS PART NO DESCRIPTION 279-0050 CEREX Concentrator 48, includes collection rack 500149 Evaporator without a head (head required)

BENCHMARK VORTEXERS					
PART NO	DESCRIPTION				
BV1003	BenchMixer V2 Vortex Mixer with flip top cup head				
BV1010	BenchMixer XL Multi-Tube Vortexer (includes 50x12 mm tube rack)				

TARGET DRUGS & RETENTION TIME									
Analyte	Retention Time (min)	Analyte	Retention Time (min)	Analyte	Retention Time (min)				
Codeine	2.35	Phentermine	3.10	Oxazepam	5.27				
Oxycodone	2.68	MDEA	3.19	Verapamil	5.44				
Amphetamine	2.64	Heroin	3.81	Lorazepam	5.41				
Amphetamine-d3 (IS 1)	2.64	Cocaine	3.94	Alprazolam	5.51				
MDA	2.72	Cocaine-d3 (IS 2)	3.94	Methadone	5.54				
Hydrocodone	2.84	Meperidine	4.03	Temazepam	5.73				
Methamphetamine	2.87	Trazodone	4.35	Proadifen	6.24				
MDMA	2.91	PCP	4.51	Dizepam	6.18				
Strychnine	3.10	Nitrazepam	5.20	Diazepam-d3 (IS 3)	6.18				

LC PARAMETERS	
Analytical Column	Agilent Poroshell 120 EC-C8, 2.7 μm, 2.1 × 100 mm (695775-906) Agilent Poroshell 120 EC-C18, 2.1 × 5 mm, 2.7 μm, guard column (821725-911)
Column Temperature	50 °C
Injection Volume	2 µL
Mobile Phase A	5 mM ammonium formate + 0.1% formic acid in water
Mobile Phase B	0.1% formic acid in ACN
Flow Rate	0.5 mL/min
Gradient	Hold at 5% B to 0.5 minutes, Ramp to 50% B at 5 minutes, Ramp to 95% B at 6 minutes, Hold at 95% B to 7 minutes
Post Time	2 minutes







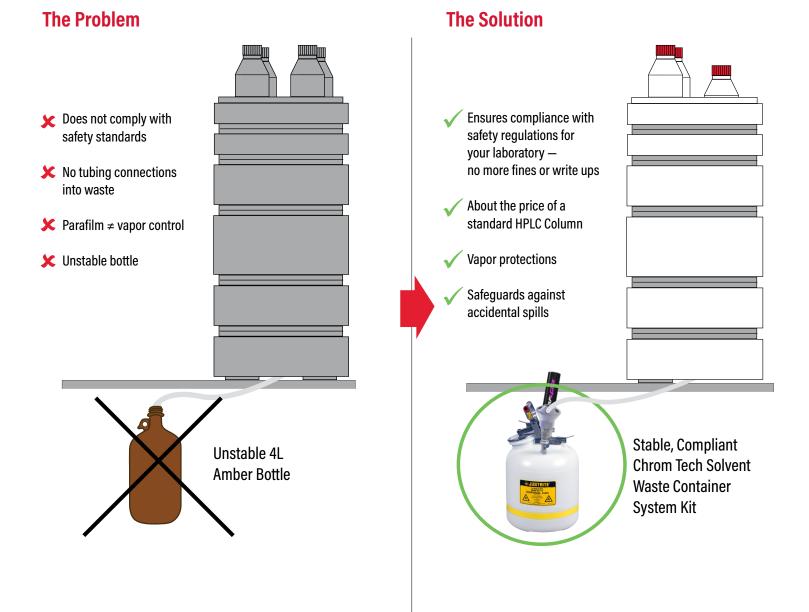
chromtech.com

Chrom Tech Waste Container Kit

CHROM TECH®

Have you ever been written up for improper collection of solvent waste?

Consider this: For the cost of an HPLC column, you could be compliant. Plus, not collecting solvent waste properly poses a risk to the people and property in your lab.



Chrom Tech Waste Container Kit

Choosing the right system for solvent waste doesn't have to be complicated.

How many HPLCs are in your lab and are they adjacent to each other? We can accommodate multiple HPLCs into one 6-port manifold.

SAFETY WASTE CONTAINER KIT-2 OR 5 GALLON KITS

6-PORT MANIFOLD, CONNECTIONS, AND ACCESSORIES INCLUDED IN KIT

- Organized laboratory space
- Remove harmful gases protect lab personnel from adverse health effects
- Tubing connections for the following tubing sizes:

1/16" OD (Qty 2) 1/8" OD (Qty 2) 1/4" ID (Qty 2) Plugs to close off any unused ports (Qty 4)



TECH TIP

Polypropylene or Stainless Steel? Choose Polypropylene (EPDM O-Ring) quick connects for typical reversed phase applications (economical and recommended option). Choose Stainless Steel (PTFE O-Ring) quick connects for normal phase or GPC applications.









Organic Vapor Filter

CHROM TE	CHROM TECH SOLVENT WASTE CONTAINER COMPLETE SYSTEM KIT							
PART NO	DESCRIPTION							
SAFETY-2PP	2 gal PE Solvent Waste Containment System w/PP quick connects							
SAFETY-5PP	5 gal PE Solvent Waste Containment System w/PP quick connects							
SAFETY-2SS	2 gal PE Solvent Waste Containment System w/SS quick connects							
SAFETY-5SS	5 gal PE Solvent Waste Containment System w/SS quick connects							

Manifold

SAFETY KIT ACCESSORIES (NOT INCLUDED IN KIT)

IDEX BOTTLE CAPS, PLUGS & ADAPTERS

- Safely store your HPLC solvents
- Ports for 1/8" tubing and a luer taper
- Plugs and adapters for unused ports

IDEX BOTTLE CAPS								
PART NO	PORT QTY	PORT STYLE	MATERIALS					
IDEX GL38 BOTTLE CAPS								
A-622	3	(2) 1/8" OD Tubing, (1) Luer Taper	PTFE, Polypropylene					
IDEX GL45	IDEX GL45 BOTTLE CAPS							
A-620	3	(2) 1/8" OD Tubing , (1) Luer Taper	PTFE, Polypropylene					

SAFETY ACCESSORIES							
PART NO	RT NO DESCRIPTION						
JT-84003	HPLC Can Spill Basin with 5 g spill capacity						
JT-08500	Antistatic flexible wire with dual alligator clips, 3'						



IDEX PLUG	IDEX PLUGS & ADAPTERS						
PART NO	DESCRIPTION						
A-626	Bottle Cap Plug for luer hole, UHMWPE						
A-628	Bottle Cap Plug for 1/16", 1/8" or 3/16" hole, UHMWPE						
A-629	Filter Bottle Cap Plug for 1/16", 1/8" or 3/16" hole, UHMWPE with 20 µm stainless steel frit						





Microlab[®] 600 Diluter/Dispenser

CHROM TECH[®]

Increased Accuracy and Time Savings

- Eliminate variability in standard concentrations for calibration curve accuracy
- Lock down methods to reduce opportunity for user error
- Maximize throughput
- Lower costs/sample—dramatic time, labor, and solvent savings

Demand for Accurate Measurements

The Microlab 600 Advanced version has features that will allow you to lock down your process, so even when under oath, you can be confident in your methodology. The Microlab 600 Diluter/ Dispenser makes measurements more reliable.

Less User Variation with the MicroLab 600 Diluter/Dispenser

Eliminate variation between users, inconsistencies with different solution types, and performance variation at different elevations with the MicroLab 600.

HAMILTON 600 DILUTERS & DISPENSERS							
PART NO	DESCRIPTION						
MICROLAB 600	DILUTERS						
ML615-DIL	MicroLab 615 Basic Dual Syringe Diluter						
ML625-DIL	MicroLab 625 Advanced Dual Syringe Diluter*						
MICROLAB 600	DISPENSERS						
ML615-DIS	MicroLab 615 Basic Dual Syringe Dispenser						
ML625-DIS	MicroLab 625 Advanced Dual Syringe Dispenser*						
DISPOSABLE TI	IP HAND PROBE						
ML625-DTHP	Microlab 600 Diluter with Disposable Tip Hand Probe						
CLICKSURE TIP	S FOR DTHP						
235537	50 μL, non-sterile ClickSure Tips, 960 tips, racked						
235543	50 μL, non-sterile ClickSure Tips, 960 tips, bulk						
235539	1 mL, non-sterile ClickSure Tips, 960 tips, racked						
235545	1 mL, non-sterile ClickSure Tips, 960 tips, bulk						
*Advanced Syste	ems come with 2 GB SD card with advanced wizards, programs, Basic models can be upgraded to advanced						

*Advanced Systems come with 2 GB SD card with advanced wizards, programs. Basic models can be upgraded to advanced software with purchase of SD card.

More configurations, plus disposable tip versions are available for all systems. View website for more options.

How Does it Work?

- Step 1. Program sample and diluent volume.
- Step 2. Trigger the hand probe to fill left syringe with diluent and aspirate sample into the hand probe with the right syringe.
- Step 3. Trigger the hand probe to dispense the sample and then the diluent into the vial to complete the dilution and wash the tube for the next sample.



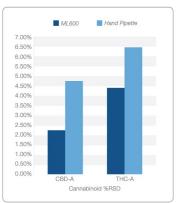


Fig. 1: % Relative Standard Deviation testing comparison between the ML600 and traditional hand pipetting methods for CBD-A and THC-A. The Microlab 600 can reduce %RSD by more than 50% compared to hand pipetting methods.



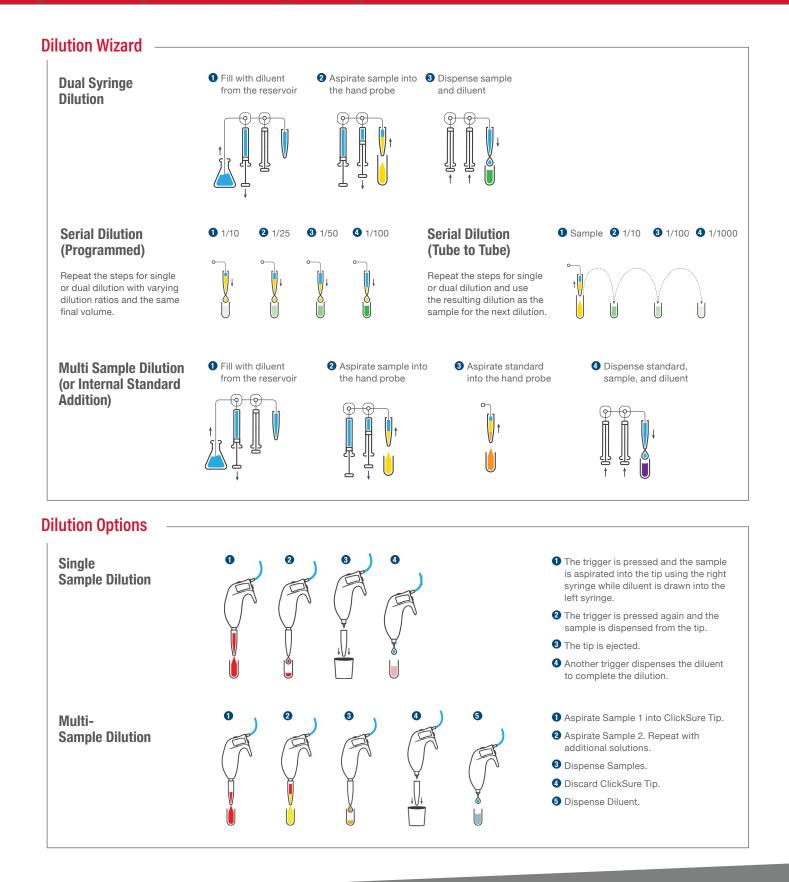
1 mL ClickSure Tip



The Microlab 600's Dual Syringe Diluter configuration uses two syringes to create up to a 1:50,000 dilutions in a single step



Microlab[®] 600 Diluter/Dispenser







Popular Vials - Premium Autosampler Vials without the Premium Price

Π Insert is preassembled in vial at an economical price. 2 mL 2 mL w/Graduated Marking 2 mL Assembled w/200 µL pulled point insert (1,000/cs)* CLEAR GLASS AMBER GLASS MATERIAL CLEAR GLASS AMBER GLASS CLEAR GLASS PART NO CTV-1104 CTV-1104A CTV-1104GS CTV-1104GSA CTV-1104-02 PRE-LOADED VIALS ASSEMBLED W/INSERTS

			_						
11 MM ALUMINUM CLOSURE									
PART NO	SEPTA	COLOR	QTY						
CTC-1108*	PTFE/Nat. Rubber	Silver	1,000/pk						
CTC-1109	PTFE/Seal	Silver	1,000/pk						
CTC-1109B	PTFE/Seal	Blue	1,000/pk						
408007	PTFE/Nat. Rubber	Red	100/pk						
515011	PTFE/Silicone	Silver	100/pk						
551011	10 mil PTFE	Poly Crimp	100/pk						

All glass vials available as deactivated. Contact Chrom Tech

for a quote.

*Most popular crimp top closure

11 mm Wide Mouth Crimp Top Vials & Closures (100/pk)





II MM SNAP TOP CLOSURES, 100/PK							
SEPTA	CLEAR	BLUE	GREEN				
10 mil PE, (1000/pk)	CTC-5200M	-	-				
PTFE/Silicone	CTC-1305	CTC-1305B	CTC-1305G				
PTFE/Silicone w/slit	CTC-1370	CTC-1370B	CTC-1370G				

11 mm Standard Opening Crimp Top Vials (100/pk) & Closures

						1.5 1.0 0.5				
	2 r	L 2 mL w/Graduated		uated Marking	1.5 mL High Recov	2 mL Assembled	2 mL Assembled			
MATERIAL	CLEAR GLASS	AMBER GLASS	CLEAR GLASS	AMBER GLASS	CLEAR	CLEAR GLASS	CLEAR GLASS			
INSERT	N/A	N/A	N/A	N/A	N/A	200 µL conical	300 µL flat bottom			
PART NO	CTV-1100	CTV-1100A	CTV-1100GS	CTV-1100GSA	CTH-1400	CTV-1100-02*	CTV-1100-03*			
	CTV-1100M*					PRE-LOADED VIALS A	SSEMBLED W/INSERTS			

*1,000/cs

VIAL SAMPLE PACKS

Request a Free Vial Sample Pack

Our vial sample pack features our top selling liquid and gas chromatography vials and caps. Compare our popular vials to find the best option for your lab.



Insert is pre-assembled in vial at an economical price.

Popular Vials - Premium Autosampler Vials without the Premium Price

	2	mL	2 mL w/Grad	uated Marking	300 µL w/ Fused Insert	1.5 mL Recovery Vial	200 µL Insert w/Spring			
MATERIAL	CLEAR GLASS	AMBER GLASS	CLEAR GLASS	AMBER GLASS	CLEAR GLASS	CLEAR GLASS	CLEAR GLASS	PRE-ASSEMBLED CLOSURE (100/PK)		
PART NO	CTV-1209	CTV-1209A	CTV-1209GS	CTV-1209GSA	CTV-1209-03	-	CTV-1209-02	SEPTA	BLACK CAP & SEPTA	
CONVENIENCE PACK (CP) INCLUDES	VIAL & STA	NDARD PRE-	ASSEMBLED	CAP & SEPTA, 1	00/PK			PTFE/Silicone	CTC-0952	
PTFE/Silicone (CTC-0952)	CP-0952	CP-0952A	CP-0952GS	CP-0952GSA	CP-0952-03*	-	-	PTFE/Silicone w/Slit	CTC-0955	
PTFE/Silicone w/Slit (CTC-0955)	CP-0955	CP-0955A	CP-0955GS	CP-0955GSA	CP-0955-03*	CPH-0955-MSQ	PRE-LOADED VIAL			
PTFE/Silicone/PTFE (CTC-0957)	CP-0957	CP-0957A	CP-0957GS	CP-0957GSA	_	_	ASSEMBLED	PTFE/Silicone/PTFE	CTC-0957	
PTFE/Rubber (CTC-0956)	CP-0956	CP-0956A	CP-0956GS	CP-0956GSA	-	-	W/INSERTS (1000/CS)	PTFE/Rubber	CTC-0956	

*Includes vial and bonded pre-assembled cap and septa

Storage Vials, Caps & Seals, Vial Racks

9 mm Screw Thread Vials & Closures (100/pk)

SCREW CAP VIALS						S	
CLEAR	QTY	AMBER	QTY	VOLUME	DESCRIPTION	FITS CAPS	P/
408213	1,000/cs	404810	1,000/cs	2 mL	12 x 32 mm	8-425	53
CTV-4802	1,000/cs	CTV-4802A	1,000/cs	4 mL	15 x 45 mm	13-425	53
CTD-1760	1,000/cs	CTD-1760A	1,000/cs	8 mL	17 x 60 mm	15-425	53
CTD-2595	144/cs	-	-	32 mL	25 x 95 mm	24-400	4

True Taper[®] Collection Plates

- Eliminate transfer step between larger volume and smaller volume well plates with tapered-→ bottom 1 and 2 mL TrueTaper plates
- Holds sample volumes as small as 3 µL -

TRUE TAPE	TRUE TAPER COLLECTION PLATES					
PART NO	VOLUME	WELL FORMAT	WELL Bottom	DIAMETER OF WELL	RIMMED	QTY
96-0001T	1 mL	Round	50 µL True Taper	6.5 mm	No	25/pk
96-0002T	2 mL	Square	100 µL True Taper	-	No	25/pk
Pre-Slit Purple	Pre-Slit Purple Silicon Cap Mat					
96-0663P	_	Round	-	6.5 mm	-	5/pk



No need to adjust your needle height. Our TrueTaper plates maintain the same 45 mm overall height as our standard 1 and 2 mL collection plates.

chromtech.com



)2	SEPTA	BLACK CAP & SEPTA
	PTFE/Silicone	CTC-0952
	PTFE/Silicone w/Slit	CTC-0955
vial D	PTFE/Silicone/PTFE	CTC-0957
S	PTFE/Rubber	CTC-0956

Insert is pre-assembled in vial at an economical price.



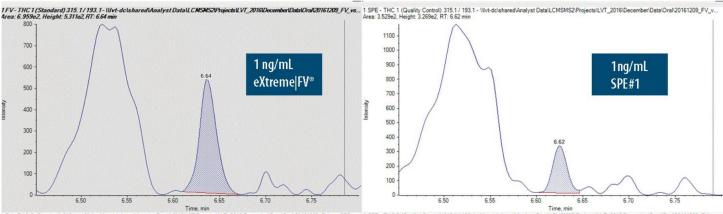
Sample Preparation for THC Testing in Oral Fluid with Thompson Filter Vials

- → Filter, vial and cap all in one design
- → Fast and easy sample preparation
- Reduce background interference with higher peak height

Increase efficiency and decrease solvent waste by utilizing Thomson Filter Vials for a fast and seamless sample preparation. The filtration process from sample pipetting to autosampler ready only requires 15 seconds.



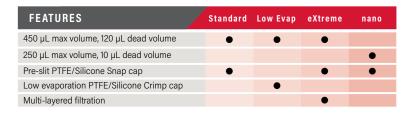
FV-3020X



1 FV - THC 2 (Standard) 315.1 / 123.1 - Wvt-dclsharedAnalyst DatalLCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst DatalLCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst DatalLCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst DatalLCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst DatalLCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst DatalLCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst DatalLCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst Data/LCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst Data/LCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst Data/LCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst Data/LCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst Data/LCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst Data/LCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst Data/LCMSMS2Projects/LVT_2016/December/Data/Oral/20161209_FV_vs_SPE.... 1 SPE - THC 2 (Quality Control) 315.1 / 123.1 - Wvt-dclsharedAnalyst Data/LCMSM

THOMSON FILTER VIALS (100/PK)						
MEMBRANE	PORE SIZE	CAP COLOR	STANDARD ¹	LOW EVAP ²	EXTREME ¹	NANO ³
Nylon	0.2 µm	Black	FV-1020	FV-1020LE	FV-1020EX	FV-1020N
	0.45 µm	Pink	FV-1045	FV-1045LE	FV-1045EX	-
PTFE (polytetrafluoroethylene)	0.2 µm	Green	FV-2020	FV-2020LE	FV-2020EX	FV-2020N
	0.45 µm	Blue	FV-2045	FV-2045LE	FV-2045EX	FV-2045N
PVDF (polyvinylidene difluoride)	0.2 µm	Red	FV-3020	FV-3020LE	FV-3020EX	FV-3020N
	0.45 µm	Yellow	FV-3045	FV-3045LE	FV-3045EX	FV-3045N
PES (polyethersulfone)	0.2 µm	Grey	FV-6020	-	FV-6020EX	FV-6020N

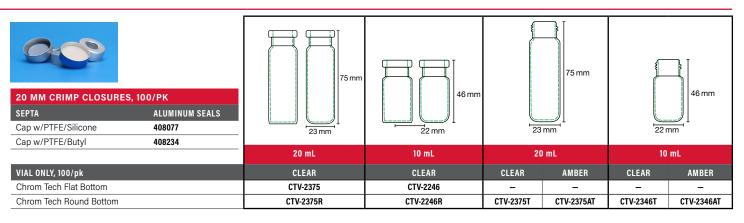
Standard & Extreme includes: Pre-slit PTFE/Silicone Septa Snap Cap attached to a Plunger Filter, outside PP shell vial (250 μL dead volume, 450 μL max volume).
 Low Evaporation includes: PTFE/Silicone Septa Crimp Cap attached to a Plunger Filter, outside PP shell vial (250 μL dead volume 450 μL max volume).
 Nano includes: Pre-slit PTFE/Silicone Septa Snap Cap attached to a Plunger Filter, outside PP shell vial (10 μL dead volume, 250 μL max volume).







Glass Crimp Cap Headspace Vials (20 mm)



AGILENT HEADSPACE CRIMP VIALS & 20 MM CLOSURES					
PART NO	DESCRIPTION	COLOR	MATERIAL	QTY	
5182-0838	10 mL flat bottom vial, 20 mm crimp	Clear	Glass	100/pk	
5182-0837	20 mL flat bottom vial, 20 mm crimp	Clear	Glass	100/pk	
5183-4477	20 mm crimp closure, PTFE/Sil	Silver	Aluminum	100/pk	

AGILENT C	AGILENT COMBIPAL HEADSPACE SCREW TOP VIALS						
PART NO	DESCRIPTION	COLOR	MATERIAL	QTY			
5188-5392	10 mL, 23x46 mm vial, 18 mm screw top	Clear	Glass	100/pk			
5188-6538	10 mL, 23x46 mm vial, 18 mm screw top	Amber	Glass	100/pk			
5188-2753	20 mL, 23x75 mm vial, 18 mm screw top	Clear	Glass	100/pk			
5188-6537	20 mL, 23x75 mm vial, 18 mm screw top	Amber	Glass	100/pk			
5188-2759	18 mm Magnetic cap w/PTFE/silicone septa (top white, bottom blue)	Silver	Aluminum	100/pk			
5190-3986	18 mm Certified cap w/high temperature septa	Silver	Steel	100/pk			



Agilent

Authorized Distributor

Restek Leak Detector

Prevent small gas leaks from causing big problems

- → Rapid charging and extended battery life—up to 12 hours between charges
- No more waiting for full charge—operational while charging

RESTEK LEAK DETECTOR					
PART NO	DESCRIPTION				
RTK-28500	Bestek electronic leak detector				

TECH TIP

It is best practice to use a leak detector daily to check critical seals (for example, septa, column nuts, reducing nuts, and fittings on gas lines).





Small Benchtop Equipment

CHROM TECH®

DBS—Dried Blood Spot Card Punch

- ➔ Easy to use foot pedal operation
- No hand fatigue or blistering
- ➔ Reduces processing time
- ➔ Direct insertion of punched disc into collection plate well or tube
- → Clear view of punching area

A pneumatic foot pedal-controlled "power punch" that increases speed and efficiency when loading dried blood spot samples into collection plates or tubes. The units require 90-110 PSI in order to properly operate; no electricity is required.

DRIED BLOOD SPOT CARD PUNCH				
PART NO	DESCRIPTION			
327300	3 mm Dried blood spot card punch, complete system			
327400	4 mm Dried blood spot card punch, complete system			
327500	5 mm Dried blood spot card punch, complete system			
327600	6 mm Dried blood spot card punch, complete system			



MultiSLEEVE[™] Controller & Heaters

- → Temperature range: 5 °C above ambient to 85 °C
- → Tube style design: Unsnap for easy column insertion & removal
- → Plug & Play smart heater technology, self calibrating
- → Save money and space, the MultiSleeve can control up to 4 Hot Sleeves! Heat 4 columns with one unit.

HOT SLEEVE & CONTROLLER

PART NO	DESCRIPTION
H-2004C	MultiSleeve 4 column heater controller, includes: MultiSLEEVE Controller, Power Supply, USB Cable, GUI, and Manual. Hot Sleeve+ sold separately. (Select up to 4 sleeves per unit)
H-2005CS	5 cm Hot Sleeve+, requires controller — sold separately
H-2010CS	10 cm Hot Sleeve+, requires controller — sold separately
H-2015CS	15 cm Hot Sleeve+, requires controller — sold separately
H-2025CS	25 cm Hot Sleeve+, requires controller — sold separately
H-2030CS	30 cm Hot Sleeve+, requires controller — sold separately
HX-038-EXP	3.8 µL Preheater, 1/16" OD x .005" ID x 30 cm, designed to work with EXP fitting



TECH TIP

When heating your column above 40 °C, it's important to preheat your mobile phase so a temperature gradient does not occur along the column. Add 10 cm to your column length when ordering your Hot Sleeve and the HX-038-EXP preheater will fit inside the heated column jacket.

Small Benchtop Equipment

BenchMixer[™] V2 Vortex Mixer

- Reversible top platform, cup or flat-dimpled surface **→**
- Powerful motor for INSTANT vortexing ->
- Continuous or "touch" operation
- Variable speed from 200 3200 rpm
- Wide variety of accessories, for tubes up to 50ml -







BV1000-H150

BENCHMIXER	V2 SPECIFICATIONS	BENCHMIXER V	2 AND ATTACHMENTS
Speed	200 – 3200 rpm	BV1003	BenchMixer V2 Vortex Mixer with flip top cup head
Orbit	3 mm	BV1000-COMBO	Combination head for one microplate & microtubes (38 x 1.5 & 28 x 0.5)
Dimensions	5.2" x 6.7" x 6.7"	BV1000-H15	12 x 1.5 mL, horizontal
Weight	8.4 lbs	BV1000-H150	4 x 15 mL, horizontal
Warranty	2 years	BV1000-H500	2 x 50 mL, horizontal
		BV1000-150	12 x 15 mL
		BV1003-500	5 x 50 ml

Centrifuges

MyFuge[™] Mini

- Clik-N-Lok™ INSTANT rotor attachment
- Near silent operation
- Decelerates in just one second

C1008-R MYFUGE MINI SPECIFICATIONS

Speed	6,000 rpm / 2,000 xg
Capacity	8 x 1.5/2.0 mL, 32 x 0.2 mL, 4 x PCR Strips
Dimensions	5.7" x 6.9" x 4.5"
Weight	2.2 lbs
Warranty	2 years



TECH TIP



MyFuge Mini includes a second rotor for 0.2 mL PCR tubes and strips

which is stored (together with the rotor removal key) in a convenient compartment on the bottom of the centrifuge.

Universal Centrifuge

- **→** Advanced programming with automatic rotor recognition
- Available with refrigeration
- 12 x 15ml and 8 x 50 mL swing out capacity -

Z326 UNIVERSAL CENTRIFUGE SPECIFICATIONS				
Speed	200 – 18,000 rpm			
Capacity	4 x 145 mL			
Timer	up to 99 hr, 59 min			
Dimensions	15.8" 18.9" x 14.1"			
Weight	94.6 lbs			



Available Adapters & Rotors

Z325-02MP





Each tray cab stack microplates up to a max loading height of 58 mm.

Z326-2420

Z326-1050











Shop the Largest Chromatography Portfolio in the Industry



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