

One Stop Solution for Complete Chromatography Products

GC Columns

Fused Silica Capillary Columns

- High Performance Rxi columns
- General purpose columns
- Guard /Retention Gap Columns
- Fast GC Columns
- Application Specific column
- Metal MXT Capillary columns

PLOT

- Alumina Bond Columns
- Molecular Sieve 5A Columns
- Porous Polymers Columns
- Tubing Scorer

Packed / Micropacked Columns

- Bonded stationary phases
- Packed Column Tubing
- Packed Column Packing Materials
- Custom Coated Packing Materials
- Application Specific Columns

HPLC Columns

- Pinnacle™ DB 1.9µm Small Particle Columns
C18, Silica, PFP Propyl, Biphenyl, Aqueous C18, Cyano, C18 and IBD Phases
- pHidelity® C18 5µm Columns
- LC Capillary Columns
- Pinnacle™ DB Biphenyl, 3µm & 5µm Columns
- Pinnacle™ DB PFP Propyl, 3µm & 5µm Columns
- Pinnacle™ DB Silica, 3µm Columns
- Pinnacle™ DB Aqueous C18, 3µm & 5µm Columns
- Pinnacle™ II PAH, 4µm Columns
- Trident HPLC Guard Cartridges
Pinnacle™ DB Aqueous C18, Pinnacle™ DB Biphenyl, Pinnacle™ DB PFP Propyl
- Trident Direct Guard Cartridge system

GC Accessories

- SKY Inlet Liners Agilent GC's, Bruker /Varian GC's, PerkinElmer GC's, Shimadzu GC's and Thermo Scientific GC's
- Other Deactivations and Inlet Liner accessories.
- Restek Electronic Leak Detector and Flowmeter
- Septa, Ferrules, connectors and Regulators.
- Instruments Supplies for GC's from Agilent, Bruker / Varian, Shimadzu & Thermo Scientific.
- Gas Management Systems and Filters along with Traps.
- Gas Generators and Stations
- Switchover Systems
- Gas Pressure Systems and Accessories such as Swagelok Fittings & tubing's.



Digital Flow Meter



Leak Detector

HPLC Accessories

- HPLC Instrument Supplies along with complete range of Fittings, connectors, tubings and Lab organizers.
- Mobile Phase Accessories
- LC-MS Generators & Traps
- Syringes
- QuEChERS Products for Solid Phase extractions etc.



Gas Sampling & Air Sampling (SPE Cartridges - Sample Preparation)

Reference Standards:

- Complete range of reference standards for Clinical, toxicology, forensic, Environmental, Food, flavours, petroleum and Pharmaceutical applications



Columns by Phase

Restek	Phase Composition	USP Nomenclature*	Aligent	SGE	Phenomenex	Macherey-Nagel	Supelco	Alitech	Quadrex
Rtx-1(p.39) MXT-1 (p.93)	dimethyl polysiloxane	G1, G2, G38	HP-1, DB-1, CP Sil 5 CB	BP1	ZB-1	OPTIMA1	SPB-1	00-1AT-1, EC-1	007-1
Rxi-1HT(p.37)	dimethyl polysiloxane		DB-1ht		ZB-1HTInferno			AT-1ht	
Rxi-1ms(p.31)	dimethyl polysiloxane (low bleed)		HP-1,HP-1ms, HP-1msUI DB-1, DB-1ms, DB-1msUI Ultra-1, VF-1ms CP-Sil 5 CB	BP1	ZB-1 ZB-1ms	OPTIMA 1 MS OPTIMA 1 MS Accent	SPB-1 Equity-1	AT-1ms	007-1
Rtx-5(p.40) MXT-5 (p.94)	diphenyl dimethyl polysiloxane	G27, G36	HP-5, DB-5, CP Sil 8 CB	BP5	ZB-5	OPTIMA 5	SPB-5	EC-5 AT-5	007-5
Rxi-5HT(p.37)	diphenyl dimethyl polysiloxane		DB-5ht, VF-5ht	HT5	ZB-5HTInferno	OPTIMA 5HT			
Rxi-5ms(p.31)	diphenyl dimethyl polysiloxane (low bleed)	G27, G36	HP-5, HP-5ms,DB-5 Ultra-2, CP Sil 8 CB	BP-5ms	ZB-5 ZB-5ms	OPTIMA 5 OPTIMA 5MS	SPB-5 Equity-5	AT-5ms	007-5
Rxi-5Sil MS (p.32,57,64,66,73)	1,4-bis(dimethylsiloxy)phenyl- ene dimethyl polysiloxane		DB-5ms, DB-5msUI, VF-5ms, CP Sil 8 CB	BPX5	ZB-5msi	OPTIMA 5HT Accent	SLB-5ms		007-5MS
Rxi-XLB(p.34,60)	unique phase		DB-XLB, VF-XMS		MR1, B-XLB	OPTIMA XLB			
Rtx-20(p.41) MXT-20(p.94)	diphenyl dimethyl polysiloxane						SPB-20	EC-20, AT-20	007-20
Rtx-35(p.41) MXT-35(p.95)	diphenyl dimethyl polysiloxane	G42	HP-35, DB-35	BPX35, BPX608	ZB-35		SPB-35, SPB-608	AT-35, AT-35ms	007-35
Rxi-35Sil MS(p.35)	unique phase		DB-35ms, DB-5msUI, VF-35ms,	BPX 35	MR2	OPTIMA 35MS			
Rtx-50(p.42) MXT-50(p.95)	phenyl methyl polysiloxane	G3					SPB-50	AT-50	007-17
Rxi-17(p.34)	diphenyl dimethyl polysiloxane		HP-50+, DB-17, DB-17ht DB-608, CP Sil 24 CB		ZB-50	OPTIMA 17	SPB-17		
Rxi-17Sil MS (p.35,65)	unique phase		DB-17ms, VF-17ms CP Sil 24 CB	BPX 50	ZB-50	OPTIMA 17MS			
Rtx-65(p.42) MXT-65(p.95)	diphenyl dimethyl polysiloxane	G17							007-65HT
Rxi-624Sil MS (p.36, 70, 80)	unique phase		DB-624, VF-624ms CP-Select 624 CB	BP624	ZB-624	OPTIMA 624LB			
Rtx-1301(p.45), Rtx-624(p.45), MXT-1301(p.95)	cyanopropylphenyl dimethyl polysiloxane	G43	DB-1301, DB-624ms VF1301ms, VF-624ms, CP-1301	BP624	ZB-624	OPTIMA 1301, OPTIMA 624	SPB-624	AT-624, AT-1301	007-1301, 007-624
Rtx-1701(p.46), MXT-1701(p.96)	cyanopropylphenyl dimethyl polysiloxane	G46	DB-1701R, DB-1701, CP Sil 19 CB, VF-1701ms, VF-1701 Pesticides	BP10	ZB-1701, ZB-1701P	OPTIMA 1701	Equity 1701	AT-1701	007-1701
Rtx-200(p.44), MXT-200(p.96)	trifluoropropylphenyl polysiloxane	G6	DB-210, DB-200, VF-200ms,			OPTIMA 210		AT-210	
Rtx-200MS(p.44)	trifluoropropylphenyl polysiloxane (low bleed)		VF-200ms,						
Rtx-225(p.46)	cyanopropylphenyl phenylmethyl polysiloxane	G7,G19	DB-225ms, CP Sil 43 CB	BP225		OPTIMA 225	SPB-225	AT-225	007-225
Rtx-440(p.43)	unique phase		Restek innovation						
Rtx-2330(p.47)	biscyanopropyl cyanopropylphenyl polysiloxane	G48	VF-23ms,	BPX70			SP-2330 SP-2331 SP-2380	AT-Silar90	007-23
Rtx-2560(p.47,71)	biscyanopropyl polysiloxane		HP-88, CP Sil 88				SP-2560		
Rtx-Wax(p.48)	polyethylene glycol	G14, G15, G16 G20, G39	DB-Wax, CP Wax 52CB	BP20	ZB-Wax	OPTIMA WAX		AT-WAXms, EC-WAX	007-CW
Stabilwax (p.49,81) MXT-WAX (p.96)	polyethylene glycol	G14, G15, G16 G20, G39	HP-InnoWax, CP Wax 52CB, VFWAX MS		ZB-WAXplus	OPTIMA WAXplus	Supelcowax-10	AT-WAX	

See page 103 for Restek PLOT Column Phase Cross-Reference Chart.

*See page 131 for our USB Liquid Phase and Solid Support Cross-Reference Chart.

Columns by Application/Industry

Restek	Applications	Aligent	Supelco	Macherey-Nagel	SGE	Alltech	Phenomenex
Chiral Columns							
Rt-βDEXm, Rt-βDEXsm, Rt-βDEXse, Rt-βDEXsp, Rt-βDEXsa, Rt-βDEXcst, Rt-γDEXsa (p.89)	Chiral compounds						
Clinical, Forensic & Toxicology							
Rtx-BAC Plus 1(p.55)	Blood alcohol testing	DB-ALC1					ZB-BAC1
Rtx-BAC Plus 2(p.55)		DB-ALC2					ZB-BAC2
Environmental							
Rxi-5Sil MS(p.57,64,66)	Semivolatile - EPA Methods 8270, 525, 525	DB-5ms, DB-5msUI VF-5ms, CP-Sil 8CB	SLB- 5ms	OPTIMA 5MS Accent	BPX5		ZB5msi
RTX-VMS(p.67)	Volatiles-EPA Methods 8260,624,524	Restek innovation					
Rxi-624 Sil MS(p.70)	Volatiles-EPA Methods 624	DB-624, VF-624ms, CP-Select 624CB		OPTIMA 624 LB	BP 624		ZB 624
Rtx-502.2(p.69)	Volatiles-EPA Methods 8010, 8020, 502.2, 601, 602	DB-502.2	VOCOL			AT-502.2	
Rtx-Volatiles(p.69)			VOCOL				
Rtx-VRX(p.68)		DB-VRX					
Rtx-CLPesticides(p.62)	Organochlorine Pesticides -	DB-CLIP1					
Rtx-CLPesticides2(p.62)	EPA Methods 8010,8020,608,505,508	DB-CLIP2					
Rtx-1614(p.56)	Boriminated Flame retardants	Restek innovation					
Rtx-PCB(p.59)	Polychlorinated biphenyl -	Restek innovation					
Rxi-XLB(p.60)	EPA Methods 8082,608 PCB congeners	DB-XLB-VF-XMS					MR1, ZB-XLB
Rtx-OPPesticides(p.61)	Organophophorus Pesticides -	Restek innovation					
Rtx-OPPesticides2(p.61)	EPA Method 8141	Restek innovation					
Rtx-Dioxin2(p.58)	Dioxin & Furans EPA Methods	Restek innovation					
Rxi-17Sil MS(p.65)	Polycyclic aromatic hydrocarbons	DB-17ms, VF-17ms CP-Sil24 CB		OPTIMA 1 MS	BPX50		ZB-50
Foods, Flavors & Fragrances							
Rt-2560(p.71)	cis/trans FAMES	HP-88	SPB-2560				
FAMEWAX(p.71)	Marine oils	Select FAME	Omegawax			AT-AquaWax AT-FAME	
Rxi-PAH(p.72)	PAHs	Restek innovation					
Rtx-65 TG(p.74)	Triglycerides	Restek innovation					
Petroleum & Petrochemical							
Rt-Alumina BOND/CFC(p.108)	Chlorinated fluorocarbons (CFCs)						
Rtx-DHA(p.77)	Detailed hydrocarbons analysis	HP-PONA-DB-Petro, CP Sil PONA CB	Petrocol DH		BP1PONA		
Rtx-2887(p.79) MXT-2887 (p.99)	Hydrocarbons - ASTM 288	DB-2887	Petrocol 2887 Petrocol EX2887			AT-2887	
D-3606(p.121)	Ethanol ASTM 3606	Restek innovation					
Rt-CTEP(p.75)		CP-TCEP	TCEP				
Rtx-Mineral Oil(p.78)	DIN ENISO 9377-2	Select Mineral Oil	Select Mineral Oil	Select Mineral Oil	Select Mineral Oil		
MXT-1HT SimDist(p.100)	Simulated distillation	DB-HT-SimDis, CP-SimDist, CP-SimDst Ultimetel			BPX1	AT-3710	ZB-1XT SIMDIST
MXT-1 SimDist(p.101)		DB-HT-SimDis, CP-SimDist, CP-SimDst Ultimetel	CP-SIMDIST	CP-SIMDIST	CP-SIMDIST		
MXT-500 SimDist(p.101)		Restek innovation					
Rtx-Biodiesel TG(p.76) MXT-Biodiesel TG(p.99)	Triglycerides in biodiesel	Biodiesel, Select Biodiesel		OPTIMA Biodiesel			ZB-Bioethanol
Pharmaceutical							
Rtx-G27 w/IntegraGuard(p.83)	Organic volatile impurities (OVI)- USP 467						
Rtx-G43 w/IntegraGuard(p.83)			OVI-G43				
Rxi-624Sil MS(p.80)		DB-624, VF-624ms, CP-Select 624CB		OPTIMA 624 LB	BP-624		ZB-624
Rtx-(G27)(p.83)		HP-5, DB-5, CP-Sil 8 CB	SPB-5	OPTIMA-5	BP-5	EC-5, AT-5	ZB-5
Stabilwax (G16)(p.81)		HP-INNOwax, CPwax 52CB, VF-WAX MS	Supelcowax-10	OPTIMAWAXplus		AT-CAM	ZB WAXplus
Specially deactivated phases							
Rtx-Volatile Amine(p.85)	Volatile amines	CP-VolAmine,					
Rtx-5Amine(p.86)	Amines	CP-Sil 8 CB		OPTIMA 5 Amine			
Rtx-35Amine(p.87)		Restek innovation					
Stabilwax-DB(p.88)		CAM, CP WAX 51	Carbonwax Amine	FS-CW 20 M-AM		AT-CAM	
Stabilwax-DA(p.84)	Free fatty acids	HP-FFAP, DB-FFAP, VF-DA,CP WAX58 CB, CP-FFAP CB	Nukol	PERMABOND FFAP, OPTIMA FFAP, OPTIMA FFAP Plus	BP-21	AT-AquaWax DA AT-1000	ZB-FFAP

U.S . Pharmacopela Cross-Reference

- L1** Octadecyl silane chemically bonded to porous silica or ceramic microparticles; 1.7µm in diameter, or a monolithic rod.
Pinnacle® DB C18 (p.143), Pinnacle® DB Aqueous C18 (p.144), Ultra C18 (p.149), Ultra Aqueous C18 (p.151), Viva C18 (p.155)
- L3** Porous silica particles; 5 to 10 µm in diameter.
Pinnacle® DB Silica (p.147), Ultra Silica (p.154) Viva Silica (p.157)
- L7** Octylsilane Chemically bonded to totally porous silica particles; 1.7 to 10 µm in diameter.
Pinnacle® DB C8 (p.143), Ultra C8 (p.149) Viva C8 (p.155)
- L8** An essentially monomolecular layer of aminopropylsilane chemically bonded to totally porous gel support; 3 to 10 µm in diameter.
Ultra Amino (p.154)
- L10** Nitrile groups chemically bonded to porous silica particles; 3 to 10 µm in diameter.
Pinnacle® DB Cyano (p.147), Ultra Cyano (p.154)
- L11** Phenyl groups chemically bonded to porous silica particles; 1.7 to 10 µm in diameter.
Pinnacle® DB Biphenyl (p.145), Ultra Aromax (p.151), Ultra Biphenyl (p.142) Viva Biphenyl (p.156)
- L13** Trimethylsilane chemically bonded to porous silica particles; 3 to 10 µm in diameter.
Ultra C1 (p.150)
- L26** Butyl silane chemically bonded to totally porous silica particles; 3 to 10 µm in diameter.
Ultra C4 (p.150) Viva C4 (p.156)
- L43** Pentafluorophenyl groups chemically bonded to porous silica particles by a propyl spacer; 5 to 10 µm in diameter.
Pinnacle® DB PFP Propyl (p.146), Ultra PFP Propyl (p.153), Viva PFP Propyl (p.156)
- L68** Spherical, porous silica 100 µm or less in diameter, the surface of which has been covalently modified with alkyl amide groups and not end-capped.
Pinnacle® DB IBDI (p.146), Ultra IBD (p.153)

EXP fittings

Reusable fittings for easy, yet reliable HPLC & UHPLC connections

- Hand-tight fitting style achieves effortless HPLC seals - no tools needed!
- Both hand tight and hex-head styles wrench-tighten for reliable UHPLC use.
- Patented ferrule can be installed repeatedly without compromising high-pressure seal.
- Hybrid design combines the durability of titanium with the sealing ability of PEEK.
- Cutting-edge system provides ZDV (zero dead volume) connection to any 10-32 female port.
- Compatible with 1/16" PEEK and stainless steel tubing.

LABINDIA®

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