

HPLC Column Selection by Manufacturer

In recognizing the tremendous difficulty the chromatographer has in choosing from literally hundreds of columns and to aid in your selection of alternative materials from different manufacturers, an HPLC column selection guide is presented below.

This selection is, neither in terms of manufacturers nor in terms of their products, a complete list, and the accuracy of the data is not guaranteed.

Column	Phenomenex Alternative*	Phenomenex Recommended Alternative**
Agilent Technologies		
Bio SEC	BioSep-SEC-S	Yarra
Poroshell 300	Aeris WIDEPORE	Jupiter 300
Poroshell 120	Kinetex	Kinetex
ZORBAX Eclipse-XDB	Luna	Synergi
ZORBAX Eclipse Plus	Gemini	Luna
ZORBAX Rapid Resolution HT	Kinetex	Synergi 2.5 µm
ZORBAX PrepHT	Luna 10 µm	Luna 10 µm <i>PREP</i>
ZORBAX Rx	HyperClone	Luna
ZORBAX SB 80 Å	Kinetex XB-C18	Luna
ZORBAX SB 300 Å	Jupiter 300	Aeris WIDEPORE
ZORBAX SB Aq	Synergi Hydro-RP	Synergi Hydro-RP
ZORBAX GF (BioSeries)	BioSep-SEC-S	Yarra
ZORBAX Extend-C18	Gemini NX-C18	Gemini C18
ZORBAX 300 Extend	Jupiter 300	Aeris WIDEPORE
ZORBAX Bonus RP	Synergi Fusion-RP	Synergi Hydro-RP
ZORBAX Oligo	Clarity Oligo-RP	Clarity Oligo-MS
ZORBAX Carbohydrate	Luna NH ₂	Rezex
Alltech/Vydac/Jones/Grom (Grace Davison Discovery Sciences)		
Adsorbosphere	Luna	Synergi Max-RP
Adsorbosphere HS	Ultracarb ODS (20)	Luna C18(2)
Adsorbosphere XL	Luna	Synergi Max-RP
Adsorbosphere XL 300	Jupiter 300	Aeris WIDEPORE
Allsphere	SphereClone	Synergi Hydro-RP
Alltima	Luna	Gemini NX-C18
Alltima HP	Luna	Kinetex
Alltima AQ	Synergi Hydro-RP	Synergi Fusion-RP
Alltima Phenyl	Luna Phenyl-Hexyl	Kinetex Phenyl-Hexyl
Alphabond	Bondclone	Synergi Hydro-RP
Apex	Luna	Synergi Max-RP
Apollo	Luna	Kinetex
Brava	HyperClone	Luna
Carbohydrate	Rezex	Rezex
Chirobiotic	—	Chirex
Econosphere	Econosphere (Inquire)	Synergi Hydro-RP
Denali	Luna C18(2)	Kinetex
Everest	Jupiter 300	Aeris WIDEPORE
Genesis 300	Jupiter 300	Aeris WIDEPORE
Genesis	Luna	Gemini
Genesis AQ	Synergi Hydro-RP	Synergi Fusion-RP
Macrosphere GPC	BioSep-SEC-S	Yarra
Macrosphere 300	Jupiter	Aeris WIDEPORE
Platinum/Platinum EPS100 Å	Synergi Hydro-RP	Synergi Fusion-RP
Prevail	Luna	Kinetex
Prosphere 300	Jupiter 300	Aeris WIDEPORE
Venture	—	Shodex AFpak
Vydac 202TP (PAH)	EnviroSep PP	Synergi Hydro-RP
Vydac 228 TP	Jupiter 300 C18	Aeris WIDEPORE
Vydac 259VHP	—	Hamilton PRP-3
Vydac 238TP (C8, C18)	Jupiter 300	Aeris WIDEPORE
Vydac 300/301VHP	—	Shodex IEC
Vydac 201TP	Jupiter 300	Aeris WIDEPORE
Vydac 201/208SP	Prodigy (3)	Luna
Vydac 218TP/218MS/238MS	Jupiter 300 C18	Aeris WIDEPORE XB-C18
Vydac 214TP/214MS	Jupiter 300 C4	Aeris WIDEPORE C4
Vydac 208TP	—	Aeris WIDEPORE XB-C8
Vision HT	Kinetex	Gemini
Vydac ProZAP	Aeris WIDEPORE	Aeris WIDEPORE

Column	Phenomenex Alternative*	Phenomenex Recommended Alternative**
Bio-Rad		
Aminex	Rezex	Rezex
Bio-Sil SEC	BioSep-SEC-S	Yarra
Bio-Sil C18	Luna C18(2)	Kinetex
Bio-Sil Rex	—	Shodex IEC
Hi-Pore	Jupiter 300	Aeris WIDEPORE
Macro-Prep	—	Shodex IEC
UNOsphere	—	Shodex IEC
Chiral Technologies/DAICEL Chemical Industries, Ltd.		
CHIRALCEL AY-H	Lux Amylose-2	Lux Cellulose-2
CHIRALCEL OD-H	Lux Cellulose-1	Lux Cellulose-2
CHIRALCEL OJ-H	Lux Cellulose-3	Lux Cellulose-4
CHIRALCEL OZ-H	Lux Cellulose-2	Lux Cellulose-4
CHIRALPAK AD-H	—	Lux Amylose-2
Dionex (Thermo Fisher Scientific)		
Acclaim 120	Luna	Kinetex
Acclaim 300	Jupiter	Aeris WIDEPORE
Acclaim PA	Synergi Fusion-RP	Synergi Hydro-RP
Acclaim PA 2	Synergi Fusion-RP	Gemini NX-C18
Acclaim OA	Synergi Hydro-RP	Synergi Fusion-RP
Acclaim Surfactant	—	Gemini
AminoPac PA	—	Asahipak IEC/ES
CarboPac (MA, PA)	—	Rezex
DNAPac	Asahipak IEC	Clarity Oligo-WAX
Ionpac AS series	STAR-ION A300	Shodex IC series
IonPac CS series	Shodex IC series	Hamilton PRP-X200
IonPac ICE AS series	Rezex ROA	Rezex ROA
OmniPac	—	Luna SCX
ProPac	—	Shodex IEC
E.S. Industries		
Aquasep	Synergi Fusion-RP	Synergi Hydro-RP
Chromegabond	Nucleosil	Luna
Chromegabond HC	Ultracarb ODS (30)	Synergi Hydro-RP
Chromegabond BAS	Synergi Fusion-RP	Synergi Hydro-RP
Chromegabond WR	Luna	Gemini
Epic	Synergi 2.5 µm	Kinetex
FluoroSep-RP Phenyl	Luna Phenyl-Hexyl	Kinetex Phenyl-Hexyl
FluoroSep-RP Octyl	—	Kinetex C8
Gammabond C1	PhenoSphere C1	Develosil TMS-UG (C1)
Gammabond C8, C18	Luna C8(2), C18(2)	Kinetex C8, C18
Gammabond PVP	—	Asahipak ODS-50
Gammabond SCX	—	Shodex IEC CM-825
Gammabond WCX	—	Asahipak ES-502C 7C
Protec-RP	Synergi Fusion-RP	Synergi Hydro-RP
GL Sciences		
Inertsil ODS-Prep-100 Å	Luna 10 µm <i>PREP</i> C18(2)	Luna 10 µm C18(2)
Inertsil ODS(2)	Prodigy ODS(2)	Luna C18(2)
Inertsil ODS(3)	Prodigy ODS(3)	Luna C18(2)
Inertsil 300 Å WP300 C8	Jupiter C5	Aeris WIDEPORE C8

* Alternative - This category indicates an alternative column which will likely give a similar selectivity.

** Recommended Alternative - This category indicates an alternative column which may yield somewhat different selectivity but may also lead to improved resolution.

HPLC Column Selection by Manufacturer

This selection is, neither in terms of manufacturers nor in terms of their products, a complete list, and the accuracy of the data is not guaranteed.

Column	Phenomenex Alternative*	Phenomenex Recommended Alternative**
MAC-MOD/Bischoff/ACT/Advanced Materials Technology		
ACE	Gemini NX-C18	Kinetex XB-C18
ACE-AQ	Synergi Fusion-RP	Kinetex XB-C18
ACE-300 A	Jupiter 300	Aeris WIDEPORE
HALO	Kinetex	Luna HST
HALO Peptide ES-C18	Aeris WIDEPORE XB-C18	Aeris PEPTIDE XB-C18
Mac-Mod ACE	Gemini NX-C18	Kinetex C18
Mac-Mod Hydrobond	Synergi Fusion-RP	Synergi Hydro-RP
Mac-Mod ACE-AQ	Develosil RP-Aqueous	Synergi Hydro-RP
Mac-Mod ACE-300 Å	Jupiter 300	Aeris WIDEPORE
ProntoSIL 120 Å	Luna C18(2)	Kinetex
ProntoSIL 300 Å	Jupiter 300	Aeris WIDEPORE
ProntoSIL Aq 120 Å	Synergi Hydro-RP	Develosil RP-Aqueous(C30)
ProntoSIL Aq PLUS	Synergi Hydro-RP	Synergi Fusion-RP
ProntoSIL SH 120 Å	Gemini NX-C18	Luna C18(2)
ProntoSIL ACE-EPS	Synergi Hydro-RP	Aqua 200 Å
ProntoSIL Chiral AX	—	Chirex
ProntoSIL C30	Develosil C30	Luna Phenyl-Hexyl
Restek		
Allure	Ultracarb ODS (30)	Luna C18(2)
Allure Acidix	Develosil ODS-UG	Luna C18(2)
Allure Basix	Synergi Hydro-RP	Gemini NX-C18
Pinnacle DB	HyperClone	Luna C18(2)
Pinnacle Ultra C18	Ultracarb ODS (20)	Luna C18(2)
Pinnacle II	HyperClone BDS	Luna C18(2)
Ultra Aqueous	Synergi Hydro-RP	Synergi Fusion-RP
Ultra II	Kinetex	Synergi
Viva	Aeris WIDEPORE	Jupiter
Supelco / Sigma-Aldrich Biotechnology LP		
Ascentis	Synergi	Gemini NX-C18
Ascentis Express	Kinetex	Luna HST
Ascentis Peptide	Aeris WIDEPORE	Aeris PEPTIDE
Discovery Bio	Jupiter 300	Aeris WIDEPORE
Discovery HSF5	Luna PFP(2)	Kinetex PFP
Discovery HSC18	Luna C18(2)	Kinetex C18
Discovery C18	Luna C18(2)	Kinetex C18
Discovery HS PEG	Nucleosil Diol	—
Discovery RP C16 Amide	Synergi Fusion-RP	Synergi Fusion-RP
Discovery (C18, C16)	Synergi Hydro-RP	Luna C18(2)
Hisep	Capcell Pak MF	Asahipak GS-320
Supelco ABZ, ABZ+	Luna C8(2)	Luna C18(2)
Supelco LC-18-T	Prodigy (3)	Luna C18(2)
Supelco LC-18-S	Prodigy (3)	Luna C18(2)
Supelco LC-F	Luna PFP(2)	Synergi Polar-RP
Supelco LC-PAH	EnviroSep PP	Synergi Hydro-RP
Supelcosil LC	PhenoSphere-NEXT	Synergi Hydro-RP
Supelcosil LC-DB	HyperClone BDS	Synergi Hydro-RP
Supelcogel	Rezex	Rezex
Supelcogel ODP-50	Asahipak ODP-50	Luna C18(2)
Supelcosil LC-304/308/318	Jupiter 300	Aeris WIDEPORE
Supelcosil LC-NH ₂ -NP	Selectosil NH ₂	Luna NH ₂
Supelcosil LC-PCN	Luna CN, Capcell UG-CN	Develosil CN-UG
Supelcosil LC-SAX	PhenoSphere SAX	—
Supelcosil LC-SCX	PhenoSphere SCX	Luna SCX
Suplex pKb-100	—	Luna C8(2)

Column	Phenomenex Alternative*	Phenomenex Recommended Alternative**
Thermo Fisher Scientific		
Accucore	Kinetex	Luna
Aquasil	Synergi Hydro-RP	Develosil ODS-MG
BetaBasic	Luna	Kinetex
BioBasic SEC	BioSep-SEC-S	Yarra
BioBasic IEX	Shodex IEC	Clarity Oligo-WAX
BioBasic RP	Jupiter 300	Aeris WIDEPORE
BETASIL	Prodigy (3)	Luna
BetaMax	Luna	Gemini
BETASIL Phenyl-Hexyl	Luna Phenyl-Hexyl	Kinetex Phenyl-Hexyl
Carbamate	Synergi Fusion-RP	Synergi Hydro-RP
Deltabond	Luna C18(2)	Synergi Max-RP
Fluophase	Luna PFP(2)	Kinetex PFP
Hypercarb	—	Gemini
Hypersil GOLD	Luna	Kinetex
Hypersil Green	EnviroSep PP	Synergi Hydro-RP
Hypersil	HyperClone	Synergi Max-RP
HyPURITY	Luna	Synergi Max-RP
HyPURITY ADVANCE	Synergi Fusion-RP	Synergi Hydro-RP
HyPURITY AQUASTAR	Synergi Fusion-RP	Synergi Hydro-RP
Prism RP	Synergi Hydro-RP	Synergi Max-RP
Varian / Polymer Labs (Agilent Technologies)		
Metacarb	—	Rezex
MetaChiral	Chirex	Lux
MetaSil	Prodigy	Luna
MetaSil AQ C18 120A, 200 Å	Aqua C18 125A, 200 Å	Synergi Hydro-RP
Microsorb	Luna	Synergi
Microsorb 300 Å	Jupiter 300	Aeris WIDEPORE
PL-Aquagel-OH	PolySep GFC-P	Shodex OHpak SB-800H
PLgel	Phenogel	Phenogel
PL Hi-PLEX	Rezex	Rezex
PLRP-S	PolymerX RP-1	Gemini NX-C18
PLRP-S 300 Å	Hamilton PRP-3	Aeris WIDEPORE
PlusPore	Phenogel	Phenogel
Polaris C18 Amide, C8 Ether	—	Synergi Fusion-RP
Pursuit	Luna	Synergi
Pursuit DiPhenyl	—	Gemini C6-Phenyl
Taxsil (1, 2, 3)	Luna PFP(2)	Kinetex PFP

* Alternative - This category indicates an alternative column which will likely give a similar selectivity.

** Recommended Alternative - This category indicates an alternative column which may yield somewhat different selectivity but may also lead to improved resolution.

HPLC Column Selection by Manufacturer

This selection is, neither in terms of manufacturers nor in terms of their products, a complete list, and the accuracy of the data is not guaranteed.

Column	Phenomenex Alternative*	Phenomenex Recommended Alternative**
Waters		
ACQUITY BEH	Kinetex	Synergi 2.5 µm
ACQUITY CSH	Kinetex XB-C18	Kinetex
ACQUITY SEC	Yarra	Yarra
Atlantis	Synergi Fusion-RP	Synergi Hydro-RP
BioSuite IEX	Shodex IEC	—
BioSuite SEC	BioSep-SEC-S	Yarra
BioSuite RPC	—	Jupiter 300
Carbamate	EnviroSep CM	Synergi Hydro-RP
Carbohydrate	PhenoSphere NH ₂	Luna NH ₂
Deltapak 100A	PrimeSphere	Luna
Deltapak 300A	Jupiter 300	Aeris WIDEPORE
Envirogel	EnviroSep ABC	—
GST	—	Luna NH ₂
IC-pak	Hamilton PRP-X100	STAR-ION A300
µBondapak	Bondclone	Synergi Hydro-RP
µPorasil	Bondclone Silica	Luna Silica
µStyragel	Phenogel	Phenogel
Novapak 4 µm	—	Synergi Hydro-RP
OST	Clarity Oligo-RP	Clarity Oligo-MS
Protein-Pak IEC	Shodex IEC	—
Protein-Pak Affinity	Shodex AFPak	—
Protein-Pak SW	BioSep-SEC-S	Yarra
PrST	Aeris WIDEPORE	Jupiter 3 µm C18
PST	Aeris WIDEPORE	Aeris PEPTIDE
Resolve	PhenoSphere	Luna
Spherisorb	SphereClone	Synergi Hydro-RP
Sugar-pak	Rezex	Rezex
SunFire	Luna	Gemini NX
Symmetry C18, C8	Luna C18(2), C8(2)	Synergi Max-RP
Symmetry Shield C18, C8	Synergi Fusion-RP	Synergi Hydro-RP
Styragel	Phenogel	Phenogel
UltraStyragel	Phenogel	Phenogel
Ultrahydrogel	PolySep-GFC-P	Shodex OHPak SB
XBridge	Gemini NX-C18	Synergi Max-RP
XSelect	Kinetex	Luna
XTerra MS	Gemini NX	Gemini
XTerra RP	Gemini NX	Gemini

Column	Phenomenex Alternative*	Phenomenex Recommended Alternative**
YMC		
Carbamate	EnviroSep-CM	Synergi Hydro-RP
Carotenoid	Develosil C30	Ultracarb ODS(30)
Explosives	Ultracarb 5µm ODS(20)	Synergi Hydro-RP
Fuel Analysis	Ultracarb ODS (30)	—
J'sphere	PrimeSphere-HC	Luna C18 (2)
Hydrosphere	Synergi Hydro-RP	Synergi Hydro-RP
ODS-AL	Luna C18 (2)	Synergi Max-RP
ODS-AQ	Aqua	Synergi Hydro-RP
ODS-AM	Luna C18 (2)	Synergi Max-RP
Pack 120A	Luna (2)	Synergi
Pack 300A	Jupiter 300	Aeris WIDEPORE
Pack CN (Cyano)	Luna CN (Cyano)	Capcell Pak CN-UG
Pack Diol S	BioSep-SEC-S	Yarra
Pack NH ₂	—	Luna NH ₂
Pack Phenyl	Luna Phenyl-Hexyl	Synergi Polar-RP
Pack PRO-C18	Luna C18 (2)	Gemini NX-C18
Pack Protein-RP	Jupiter 300	Aeris WIDEPORE
Pack SEC-DVB	Phenogel	Shodex GPC KF
Polymeric C18	PolymerX RP-1	Gemini NX-C18
PRO C4, C8, C18	Develosil UG	Luna (2)
PVA-Sil	Luna Silica (2)	Shodex OH-Pak Q800
TMS (C1)	Develosil TMS-UG (C1)	PhenoSphere C1
Triart	Gemini NX	Gemini
UltraHT	Kinetex	Luna HST
YMC Basic	Luna C8(2)	Synergi Max-RP
YMC Chiral	Chirex	—

* Alternative - This category indicates an alternative column which will likely give a similar selectivity.

** Recommended Alternative - This category indicates an alternative column which may yield somewhat different selectivity but may also lead to improved resolution.