

HPLC Column Comparison Sheet

Capella C18 - Hydrophobic

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Avantor	ACE-C18	15.5	2.0-8.0'	300	100	C18	19.0	3.0-8.5	325	100	L1
Cogent	RP-C18	19.0	2.0-8.0'	325	100	C18	19.0	3.0-8.5	325	100	L1
Phenomenex	Luna C18	17.5	1.5 - 9.0	400	100	C18	19.0	3.0-8.5	325	100	L1
	LunaC18(2)	17.5	1.5 - 9.0	400	100	C18	19.0	3.0-8.5	325	100	L1
Zorbax	Zorbax ODS C18	20.0	2.0-8.0'	330	80	C18	19.0	3.0-8.5	325	100	L1
Waters	SunfireC18	16.0	2.0-8.0'	340	100	C18	19.0	3.0-8.5	325	100	L1
	SymmetryC18	19.0	2.0-8.0'	335	100	C18	19.0	3.0-8.5	325	100	L1
Kromasil	Kromasil C18	19.0	2.0-9.0'	N/A	100	C18	19.0	3.0-8.5	325	100	L1
Restek	Force C18	20.0	2.0-8.0'	300	100	C18	19.0	3.0-8.5	325	100	L1
	Roc C18	20.0	2.0-8.0'	300	100	C18	19.0	3.0-8.5	325	100	L1
Shimadzu	Shim-pack Arata C18	17.0	2.0 - 7.5	340	100	C18	19.0	3.0-8.5	325	100	L1
Merck	LiChrospher 100 RP-18 Endcapped	21.6	2.0 - 7.5	350	100	C18	19.0	3.0-8.5	325	100	L1
Thermo Fisher	Hypersil ODS	10.0	2.0-8.0'	170	120	C18	19.0	3.0-8.5	325	100	L1
	Hyperprep HS C18	15.0	2.0-9.0'	350	100	C18	19.0	3.0-8.5	325	100	L1
YMC	YMC-Pack ODS AM	17.0	2.0-7.5'	N/A	120	C18	19.0	3.0-8.5	325	100	L1
	YMC Pro C18	16.0	2.0-8.0'	N/A	120	C18	19.0	3.0-8.5	325	100	L1
Inertsustain	InertSustain C18	14.0	1.0-10.0'	350	100	C18	19.0	3.0-8.5	325	100	L1

Capella EX - C18 High pH

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Avantor	SuperC18	14.8	1.5-11.5	400	90	EX - C18	16.0	2.0-9.0	325	100	L1
Cogent	ABX-C18	15.0	2.0-10.0'	325	100	EX - C18	16.0	2.0-9.0	325	100	L1
Phenomenex	Gemini-NX C18	14.0	1.0-12.0'	375	110	EX - C18	16.0	2.0-9.0	325	100	L1
Zorbax	Zorbax Extend C18	12.5	2.0-11.5'	180	80	EX - C18	16.0	2.0-9.0	325	100	L1
Waters	XTerra RP18	15.0	2.0-12.0'	N/A	125	EX - C18	16.0	2.0-9.0	325	100	L1
Kromasil	Kromasil EternityXT C18	14.0	1.0-12.0'	330	100	EX - C18	16.0	2.0-9.0	325	100	L1
Grace	Apollo C18	15.0	1.5-10.5'	340	100	EX - C18	16.0	2.0-9.0	325	100	L1
Shimadzu	Shim-pack XR-ODS	18.0	2.0-7.5'	340	100	EX - C18	16.0	2.0-9.0	325	100	L1
Merck	Superspher 100 RP-18 Endcapped	21.6	2.0-7.5'	350	100	EX - C18	16.0	2.0-9.0	325	100	L1
Welch	Welchrom C18	19.0	1.5-10.0'	N/A	120	EX - C18	16.0	2.0-9.0	325	100	L1
	Ultisil XB-C18	17.0	1.5-10.0'	320	120	EX - C18	16.0	2.0-9.0	325	100	L1
Wesley	PrimeSIL C18	17.0	1.5-10.0'	320	100	EX - C18	16.0	2.0-9.0	325	100	L1

Capella EX - C8 High pH

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Phenomenex	Luna C8	14.75	1.5-9.0	440	100	EX - C8	11.0	2.0-9.0	325	100	L7
	Luna C8(2)	13.5	1.5-9.0	400	100	EX - C8	11.0	2.0-9.0	325	100	L7
Kromasil	Kromasil C8	12.0	1.5-9.5	320	100	EX - C8	11.0	2.0-9.0	325	100	L7
Waters	Xtimate C8	10.0	1.0-12.5	320	120	EX - C8	11.0	2.0-9.0	325	100	L7
	Ultisil XB-C8	12.0	1.5-10.0	320	120	EX - C8	11.0	2.0-9.0	325	100	L7
Wesley	Primesil C8	12.0	1.5-10.0	320	100	EX - C8	11.0	2.0-9.0	325	100	L7
Zodiac	Zodiac C8	15.0	1.5-10.0	440	100	EX - C8	11.0	2.0-9.0	325	100	L7
GL Sciences	InertSustain C8	8.0	1.0-10.0	350	100	EX - C8	11.0	2.0-9.0	325	100	L7

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Capella C8 - Less Hydrophobic

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Avantor	ACE-C8	9.0	2.0-8.0'	300	100	C8	11.0	3.0-8.5	325	100	L7
Cogent	RP-C8	11.0	2.0-8.0'	325	100	C8	11.0	3.0-8.5	325	100	L7
Zorbax	Zorbax SB-C8	12.0	1.0-8.0'	330	80	C8	11.0	3.0-8.5	325	100	L7
Waters	Sunfire C8	12.0	2.0-8.0'	340	100	C8	11.0	3.0-8.5	325	100	L7
	Symmetry C8	12.0	2.0-8.0'	335	100	C8	11.0	3.0-8.5	325	100	L7
Grace	Alltima C8	9.0	1.0-10.0'	340	100	C8	11.0	3.0-8.5	325	100	L7
Restek	Ultra C8	12.0	2.5-8.0	300	100	C8	11.0	3.0-8.5	325	100	L7
Shimadzu	Shim-pack Solar C8	9.0	2.0-9.0'	N/A	100	C8	11.0	3.0-8.5	325	100	L7
Merck	LiChrospher 100 RP-8 Endcapped	12.5	2.0-7.5	350	100	C8	11.0	3.0-8.5	325	100	L7
Thermo Fisher	Synchromis C8	10.0	2.0-8.0'	320	100	C8	11.0	3.0-8.5	325	100	L7
YMC	YMC-Pack C8 120	10.0	2.0-7.5	N/A	120	C8	11.0	3.0-8.5	325	100	L7

Capella C18 - AQ - Polar Embedded

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Avantor	C18-AQ	14.0	2.0-8.0'	300	100	C18-AQ	19.0	2.0-9.0	325	100	L1
Cogent	C18-PE	16.0	2.0-8.0'	325	100	C18-AQ	19.0	2.0-9.0	325	100	L1
Phenomenex	Aqua C18	15.0	2.5-7.5	320	125	C18-AQ	19.0	2.0-9.0	325	100	L1
Waters	SymmetryShield RP18	17.0	2.0-8.0'	335	100	C18-AQ	19.0	2.0-9.0	325	100	L1
Grace	Alltima HP C18 AQ	20.0	1.0-10.0'	450	100	C18-AQ	19.0	2.0-9.0	325	100	L1
Supelco	Ascentis C8	15.0	2.0-8.0'	450	100	C18-AQ	19.0	2.0-9.0	325	100	L1
Merck	Purospher STAR RP-18 Endcapped	17.0	1.5-10.5	330	120	C18-AQ	19.0	2.0-9.0	325	100	L1
Welch	Ultisil UHPLC AQ-C18	12.0	1.5-10.0	320	120	C18-AQ	19.0	2.0-9.0	325	100	L1
Wesley	PrimeSIL C18 AQ	12.0	1.5-10.0	320	100	C18-AQ	19.0	2.0-9.0	325	100	L1
YMC	YMC Hydrosphere C18	12.0	2.0-8.0'	330	120	C18-AQ	19.0	2.0-9.0	325	100	L1
Zodiac	Zodiac C18AQ	20.0	1.5-10.0	NA	120	C18-AQ	19.0	2.0-9.0	325	100	L1
GL Sciences	InertSustain AQ-C18	13.0	1.0-10.0'	350	100	C18-AQ	19.0	2.0-9.0	325	100	L1

Capella PFP - Isomers

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Cogent	PFP	9.0	2.0-8.0'	325	100	PFP	9.0	3.0-8.5	325	100	L43
Phenomenex	Luna PFP(2)	11.5	1.5-9.0	400	100	PFP	9.0	3.0-8.5	325	100	L43
Waters	Acquity UPLC HSS PFP	7.0	2.0-8.0'	230	100	PFP	9.0	3.0-8.5	325	100	L43
	Xselect HSS PFP	7.0	2.0-8.0'	230	100	PFP	9.0	3.0-8.5	325	100	L43
Restek	Ultra PFP	11.0	2.5-8.0	300	100	PFP	9.0	3.0-8.5	325	100	L43
	Force FluoroPhenyl	10.0	2.0-8.0'	300	100	PFP	9.0	3.0-8.5	325	100	L43
Supelco	Discovery HS F5	12.0	2.0-8.0'	300	120	PFP	9.0	3.0-8.5	325	100	L43
Shimadzu	Shim-pack Scepter PFPP	15.0	1.0-8.0'	N/A	120	PFP	9.0	3.0-8.5	325	100	L43
Wesley	PrimeSIL PFP	7.0	2.0-8.0'	320	100/120	PFP	9.0	3.0-8.5	325	100	L43
YMC	YMC-Triart PFP	15.0	1.0-8.0'	360	120	PFP	9.0	3.0-8.5	325	100	L43
GL Sciences	InertSustain PFP	10.0	2.0-7.5	350	100	PFP	9.0	3.0-8.5	325	100	L43

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Capella CN - Midpolar & Polar Compounds

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Avantor	ACE-Cyano	5.5	2.0-7.0'	300	100	CN	6.0	3.0-8.5	325	100	L10
Cogent	Cyano	6.0	2.0-7.0'	325	100	CN	6.0	3.0-8.5	325	100	L10
Phenomenex	Luna CN	7.0	1.5-7.0	400	100	CN	6.0	3.0-8.5	325	100	L10
Zorbax	Zorbax CN	7.0	1.0-8.0'	330	80	CN	6.0	3.0-8.5	325	100	L10
Waters	Alltima Cyano	5.0	2.0-7.0'	340	100	CN	6.0	3.0-8.5	325	100	L10
	Xselect HSS CN	5.0	2.0-7.0'	230	100	CN	6.0	3.0-8.5	325	100	L10
Grace	Prevail CN	5.0	2.0-7.0'	350	110	CN	6.0	3.0-8.5	325	100	L10
Restek	Roc Cyano	8.0	2.5-8.0	300	100	CN	6.0	3.0-8.5	325	100	L10
Supelco	Ascentis ES Cyano	10.0	1.0-8.0'	450	100	CN	6.0	3.0-8.5	325	100	L10
Merck	LiChrospher® 100 CN	6.6	2.0-7.5	350	100	CN	6.0	3.0-8.5	325	100	L10
Thermo Fisher	BetaSil™ CN	6.0	2.0-9.0'	NA	100	CN	6.0	3.0-8.5	325	100	L10
Wesley	PrimeSIL CN	5.0	2.0-8.0'	350	100	CN	6.0	3.0-8.5	325	100	L10
YMC	YMC-Pack CN 120	7.0	2-8'	NA	120	CN	6.0	3.0-8.5	325	100	L10
GL Sciences	InertSustain Cyano	8.0	2-8'	350	100	CN	6.0	3.0-8.5	325	100	L10

Capella Phenyl - Aromatic Compounds

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Avantor	ACE-Phenyl	9.5	2.0-8.0'	300	100	Phenyl	12.0	3.0-8.5	325	100	L11
Cogent	Phenyl	15.0	2.0-9.0'	325	100	Phenyl	12.0	3.0-8.5	325	100	L11
Phenomenex	Prodigy Phenyl	10.0	2.0-9.0'	450	100	Phenyl	12.0	3.0-8.5	325	100	L11
Zorbax	Zorbax StableBond SB-Phenyl	5.5	1.0-8.0'	300	80	Phenyl	12.0	3.0-8.5	325	100	L11
Grace	Alltima Phenyl	7.5	N/A	340	100	Phenyl	12.0	3.0-8.5	325	100	L11
Thermo fisher	BETASIL Phenyl	11.0	2.0-9.0'	N/A	100	Phenyl	12.0	3.0-8.5	325	100	L11
Zodiac	ZODIAC Phenyl	14.0	1.5-8.0	N/A	100	Phenyl	12.0	3.0-8.5	325	100	L11
GL Sciences	InertSustain Phenyl	10.0	2.0-7.5	350	100	Phenyl	12.0	3.0-8.5	325	100	L11

Capella Silica - Polar Compounds

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Avantor	ACE-Silica	N/A	2.0-7.0'	300	100	Silica	N/A	N/A	325	100	L3
Cogent	Silica	N/A	2.0-7.0'	325	100	Silica	N/A	N/A	325	100	L3
Phenomenex	Luna Silica	N/A	2.0-7.5	400	100	Silica	N/A	N/A	325	100	L3
Waters	Spherisorb Silica	N/A	2.0-8.0'	220	80	Silica	N/A	N/A	325	100	L3
Grace	Alltima HP Silica	N/A	2.0-8.0'	450	100	Silica	N/A	N/A	325	100	L3
	Prevail Silica	N/A	2.0-8.0'	350	110	Silica	N/A	N/A	325	100	L3
Restek	Roc Silica	N/A	2.0-8.0'	300	100	Silica	N/A	N/A	325	100	L3
Supelco	Ascentis Silica	N/A	2.0-6.0'	450	100	Silica	N/A	N/A	325	100	L3
Thermo Fisher	Synchromis Silica	N/A	2.0-8.0'	320	100	Silica	N/A	N/A	325	100	L3
Welch	Ultisil SiO2	N/A	2.0-8.0'	320	120	Silica	N/A	N/A	325	100	L3
	Xtimate SiO2	N/A	1.0-12.5	320	120	Silica	N/A	N/A	325	100	L3
Wesley	PrimeSIL-Silica	N/A	N/A	320	100	Silica	N/A	N/A	325	100	L3
YMC	YMC-Pack SIL	N/A	2.0-7.5	330	120	Silica	N/A	N/A	325	100	L3
GL Sciences	Inertsil SIL-100A	N/A	2.0-7.5	450	100	Silica	N/A	N/A	325	100	L3

HPLC Column Comparison Sheet

Capella DIOL - Proteins

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Merck	LiChrospher 100 Diol	8.0	2.0-7.5	350	100	Diol	4.0	3.0-8.5	325	100	L20
Thermo Fisher	Betasil Diol 100	6.0	2.0-9.0'	310	100	Diol	4.0	3.0-8.5	325	100	L20
Welch	Ultisil Diol	2.5	2.0-8.0'	320	120	Diol	4.0	3.0-8.5	325	100	L20
Wesley	PrimeSIL -Diol	3.0	2.0-7.5	320	100	Diol	4.0	3.0-8.5	325	100	L20
YMC	YMC-Pack Diol-120	5.0	5.0-7.5	330	120	Diol	4.0	3.0-8.5	325	100	L20
GL Sciences	Inertsil Diol	20.0	2.0-7.5	450	100	Diol	4.0	3.0-8.5	325	100	L20

Capella AMINO - Sugar Molecules

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Avantor	ACE-NH ₂	3.5	2.0-7.0'	300	100	Amino	4.0	3.0-8.5	325	100	L8
Cogent	Amino	4.0	2.0-7.0'	325	100	Amino	4.0	3.0-8.5	325	100	L8
Phenomenex	Luna NH ₂	9.5	1.5-11.0	400	N/A	Amino	4.0	3.0-8.5	325	100	L8
Zodiac	ZODIAC Amino	10.0	2.0-7.0'	N/A	100	Amino	4.0	3.0-8.5	325	100	L8
Waters	Spherisorb NH ₂	1.9	2.0-8.0'	220	80	Amino	4.0	3.0-8.5	325	100	L8
Shimadzu	Shim-pack HRC-NH ₂	7.0	2.0-7.5	350	100	Amino	4.0	3.0-8.5	325	100	L8
	Shim-pack PRC-NH ₂	7.0	2.0-7.5	350	100	Amino	4.0	3.0-8.5	325	100	L8
	Shim-pack CLC-NH ₂	7.0	2.0-7.5	350	100	Amino	4.0	3.0-8.5	325	100	L8
Merck	LiChrospher 100 NH ₂	4.6	2.0-7.5'	350	100	Amino	4.0	3.0-8.5	325	100	L8
	Purospher STAR NH ₂	3.5	2.0-7.5'	330	120	Amino	4.0	3.0-8.5	325	100	L8
Thermo Fisher	Syncronis Amino	4.0	2.0-8.0'	320	100	Amino	4.0	3.0-8.5	325	100	L8
Welch	Ultisil XB-NH ₂	4.0	1.5-10.0	320	120	Amino	4.0	3.0-8.5	325	100	L8
Wesley	PrimeSIL NH ₂	5.0	2.0-8.0'	320	100/120	Amino	4.0	3.0-8.5	325	100	L8
YMC	YMC-Pack NH ₂	5.0	2.0-7.5'	330	120	Amino	4.0	3.0-8.5	325	100	L8
GL Sciences	InertSustain NH ₂	7.0	2.0-7.5	350	100	Amino	4.0	3.0-8.5	325	100	L8

Capella SCX - IEX

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Cogent	SCX	3.0	2.0-8.0'	325	100	SCX	N/A	3.0-8.5	325	100	L6
Waters	Spherisorb SCX	4.0	2.0-8.0'	220	80	SCX	N/A	3.0-8.5	325	100	L6
Zodiac	Zodiac Prep SCX	N/A	2.0-6.0'	450	100	SCX	N/A	3.0-8.5	325	100	L6
GL Sciences	Inertsil CX	14.0	2.0-7.5	450	100	SCX	N/A	3.0-8.5	325	100	L6
Phenomenex	Luna SCX	N/A	2.0-7.0'	400	100	SCX	N/A	3.0-8.5	325	100	L6

Capella SAX - IEX

Brand/Company	Phase	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	RSolv	Carbon Load (%)	pH Range	Surface Area (m ² /g)	Pore Size (Å)	USP Listed
Cogent	SAX	3.0	2.0-8.0'	325	100	SAX	N/A	2.0-8.0'	325	100	L14
Waters	Spherisorb SAX	4.0	2.0-8.0'	220	80	SAX	N/A	2.0-8.0'	325	100	L14
Zodiac	Zodiac Prep SAX	N/A	2.0-6.0'	450	100	SAX	N/A	2.0-8.0'	325	100	L14
GL Sciences	Inertsil AX	14.0	2.0-7.5	450	100	SAX	N/A	2.0-8.0'	325	100	L14
Phenomenex	PhenoSphere SAX	4.0	2.5-7.5	220	80	SAX	N/A	2.0-8.0'	325	100	L14