

a selection of HPLC Material Sorbent Characteristics

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

Phenomenex Sorbents

Packing Material	Particle Shape/Size (µm)	Pore Size (Å)	Pore Volume (mL/g)	Surface Area (m ² /g)	Carbon Load %	Calculated* Bonded Phase Coverage (µmole/m ²)	End Capping	pH Range	USP Packing
Aeris WIDEPORE XB-C18	Core-Shell 3.6	200	—	25	—	—	Yes	1.5-9	L1
Aeris WIDEPORE XB-C8	Core-Shell 3.6	200	—	25	—	—	Yes	1.5-9	L7
Aeris WIDEPORE C4	Core-Shell 3.6	200	—	25	—	—	Yes	1.5-9	L26
Aeris PEPTIDE XB-C18	Core-Shell 1.7, 2.6, 3.6, 5	100	—	200	10 [†]	—	Yes	1.5-9	L1
Aqua C18	Spher. 3, 5	125	1.05	320	15	—	Proprietary	2.5-7.5	L1
Aqua C18	Spher. 5	200	1.15	215	11	—	Proprietary	2.5-7.5	L1
Biozen Glycan	Core-Shell 2.6	100	—	200	—	—	—	2.0-7.5	—
Biozen Peptide PS-C18	Spher. 1.6, 3	100	—	260	9	—	—	1.5-8.5 ^Δ	L1
Biozen Peptide XB-C18	Core-Shell 1.7, 2.6	100	—	200	10	—	—	1.5-9 [‡]	L1
Biozen WidePore C4	Core-Shell 2.6	400	—	25	<1	—	—	1.5-9 [‡]	L26
Biozen Intact XB-C8	Core-Shell 3.6	200	—	20	—	—	—	1.5-9 [‡]	L7
Biozen Oligo	Core-Shell 1.7, 2.6	100	—	200	11 [†]	—	—	1-12	—
Biozen WCX	Non-Porous 6	—	—	—	—	—	—	2-12	—
Bondclone Silica	Irreg. 10	148	1.1	300	0	0	No	—	L3
Bondclone C18	Irreg. 10	148	1.1	300	10,	1.61	Yes	2.5-7.5	L1
Clarity Oligo-RP	Spher. 3, 5, 10	110	—	375	14	—	Yes	1-12	—
Clarity Oligo-MS	Core-Shell 1.7, 2.6, 5	100	—	200	12	—	Yes	1.5-10	L1
Clarity Oligo-XT	Hybrid Core-Shell 1.7, 2.6, 5	100	—	200	11	—	Yes	1-12	L1
Gemini C18	Hybrid Spher. 3, 5, 10	110	—	375	14	—	Yes	1.0-12.0	L1
Gemini C6-Phenyl	Hybrid Spher. 3, 5	110	—	375	12	—	Yes	1.0-12.0	L11
Gemini NX-C18	Hybrid Spher. 3, 5, 10	110	—	375	14	—	Yes	1.0-12.0	L1
HyperClone BDS C8	Spher. 3, 5	130	0.6	155	7	—	Yes	2.0-7.5	L7
HyperClone BDS C18	Spher. 3, 5	130	0.6	155	11	—	Yes	2.0-7.5	L1
HyperClone MOS (C8)	Spher. 3, 5	120	0.6	155	6.5	—	Yes	2.0-7.5	L7
HyperClone ODS (C18)	Spher. 3, 5	120	0.6	155	10	—	Yes	2.0-7.5	L1
HyperClone CN (CPS)	Spher. 3, 5	120	0.6	155	4	—	No	2.0-7.5	L10
Jupiter C4	Spher. 5, 10, 15	300	—	170	5.0	6.30	Yes	1.5-10	L26
Jupiter C5	Spher. 5	300	—	170	5.5	5.30	Yes	1.5-10	—
Jupiter C18	Spher. 3, 5, 10, 15	300	—	170	13.34	5.50	Yes	1.5-10	L1
Jupiter Proteo	Spher. 4, 10	90	—	475	15	—	Yes	1.5-10.0	—
Kinetex EVO C18	Hybrid Core-Shell 1.7, 2.6, 5	100	—	200	11 [†]	—	Yes	1-12	L1
Kinetex C18	Core-Shell 1.3, 1.7, 2.6, 5	100	—	200	12 [†]	—	Yes	1.5-8.5 ^Δ	L1
Kinetex PS C18	Core-Shell 2.6	100	—	200	9 [†]	—	Yes	1.5-8.5 ^Δ	L1
Kinetex XB-C18	Core-Shell 1.7, 2.6, 3.5, 5	100	—	200	10 [†]	—	Yes	1.5-8.5 ^Δ	L1
Kinetex C8	Core-Shell 1.7, 2.6, 5	100	—	200	8 [†]	—	Yes	1.5-8.5 ^Δ	L7
Kinetex Biphenyl	Core-Shell 1.7, 2.6, 5	100	—	200	11 [†]	—	Yes	1.5-8.5 ^Δ	L11
Kinetex Phenyl-Hexyl	Core-Shell 1.7, 2.6, 5	100	—	200	11 [†]	—	Yes	1.5-8.5 ^Δ	L11
Kinetex F5	Core-Shell 1.7, 2.6, 5	100	—	200	9 [†]	—	Yes	1.5-8.5 ^Δ	L43
Kinetex HILIC	Core-Shell 1.7, 2.6, 5	100	—	200	0	—	No	2.0-7.5	L3
Kinetex Polar C18	Core-Shell 2.6	100	—	200	9 [†]	—	Yes	1.5-8.5 ^Δ	L1
Kinetex PAH	Core-Shell 3.5	100	—	200	12 [†]	—	Yes	1.5-8.5 ^Δ	L118
Luna PFP(2)	Spher. 3, 5	100	1.0	400	11.5	2.20	Yes	1.5-8.0	L43
Luna Phenyl-Hexyl	Spher. 3, 5, 10, 15	100	1.0	400	17.5	4.00	Yes	1.5-9.0 [‡]	L11
Luna Silica(2)	Spher. 3, 5, 10, 15	100	1.0	400	0	—	No	2.0-7.5	L3
Luna C5	Spher. 5, 10	100	1.0	440	12.5	7.85	Yes	1.5-9.0 [‡]	—
Luna C8	Spher. 5, 10	100	1.0	440	14.75	5.50	Yes	1.5-9.0 [‡]	L7
Luna C8(2)	Spher. 3, 5, 10, 15	100	1.0	400	13.5	5.50	Yes	1.5-9.0 [‡]	L7
Luna C18	Spher. 5, 10	100	1.0	440	19	3.00	Yes	1.5-9.0 [‡]	L1
Luna C18(2)-HST	Spher. 2.5	100	1.0	400	17.5	3.00	Yes	1.5-9.0 [‡]	L1
Luna C18(2)	Spher. 3, 5, 10, 15	100	1.0	400	17.5	3.00	Yes	1.5-9.0 [‡]	L1
Luna CN	Spher. 3.5, 10	100	1.0	400	7.0	3.80	Yes	1.5-7.0	L10
Luna HILIC	Spher. 3, 5	200	—	200	5.7	4.30	No	1.5-8.0	L20
Luna NH ₂	Spher. 3.5, 10	100	1.0	400	9.5	5.80	No	1.5-11.0	L8
Luna SCX	Spher. 5, 10	100	—	400	0.55% Sulfur Load, Binding Capacity: 0.15 meq/g	—	No	2.0-7.0	L9
Luna Omega C18	Spher. 1.6, 3, 5	100	—	260	11	2.5	Yes	1.5-8.5 ^Δ	L1
Luna Omega PS C18	Spher. 1.6, 3, 5	100	—	260	9	—	Yes	1.5-8.5 ^Δ	L1
Luna Omega Polar C18	Spher. 1.6, 3, 5	100	—	260	9	—	Yes	1.5-8.5 ^Δ	L1
Luna Omega SUGAR	Spher. 3	100	—	260	<2	—	Yes	2.0-7.0	L8
Onyx C18	C18 Bonded Rod**	130*	1.0	300	18	3.6	Yes	2.0-7.5	L1
PhenoSphere C6	Spher. 3, 5, 10	80	0.5	220	6, Monomeric	2.27	Yes	2.5-7.5	L15

[†] Effective Carbon Load. ^{**} Mesopore size listed. Macropore size is 2 µm. ^Δ pH range is 1.5-10 under isocratic conditions. pH range is 1.5-8.5 under gradient conditions. [‡] pH range is 1.5-10 under isocratic conditions. pH range is 1.5-9.0 under gradient conditions.

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