

GL Sciences HPLC Columns' Specification

	Column	Features	USP Code	Particle Size (µm)	Pore Size (nm)	Surface Area (m ² /g)
Reversed Phases	InertSustain C18	First choice with ultra high inertness and high durability	L1	2, 3, 5	10	350
	InertSustain AQ-C18	First choice for high polar compounds	L1, L96	1.9, 3, 5	10	350
	InertSustainSwift C18	First analysis with ultra high inertness and high durability	L1	1.9, 3, 5	20	200
	Inertsil ODS-HL	Ultra high retentivity, High-density bonding of C18 phase	L1	3, 5	10	450
	Inertsil ODS-4	Ultra high inertness, High plate count, Medium retentivity	L1	2, 3, 5	10	450
	Inertsil ODS-4V	Inertsil ODS-4 Validated column	L1	3, 5	10	450
	Inertsil ODS-3	Strong retentivity, Lower column backpressure, Very inert	L1	2, 3, 4, 5, 10	10	450
	Inertsil ODS-3V	Inertsil ODS-3 Validated column	L1	3, 5	10	450
	Inertsil ODS-SP	Weak retentivity, for hydrophobic compounds	L1	3, 5	10	450
	Inertsil ODS-P	High steric selectivity	L1	3, 5	10	450
	Inertsil ODS-EP	A polar functional group embedded	L1	5	10	450
	Inertsil WP300 C18	Analysis of high molecules	L1	5	30	150
	Inertsil ODS-80A	Elute low molecule with a sharp peak shape	L1	5	8	450
	Inertsil ODS-2	Ultra pure silica gel is used	L1	5	15	320
Inertsil ODS	Inertness 1st generation	L1	5, 10	10	350	
Other Reversed Phases	InertSustain C8	First choice with ultra high inertness and high durability	L7	2, 3, 5	10	350
	InertSustainSwift C8	High inertness and high durability C8 column	L7	1.9, 3, 5	20	200
	Inertsil C8-4	Ultra high inertness, High plate count, Low retentivity	L7	2, 3, 5	10	450
	Inertsil C8-3	Strong retentivity, Lower column backpressure, Very inert	L7	2, 3, 5, 10	10	450
	Inertsil C8	Ultra pure silica gel is used	L7	5	15	320
	Inertsil C4	Low retentivity	L26	5	15	320
	Inertsil WP300 C8	Suitable for high molecules	L7	5	30	150
	Inertsil WP300 C4	L26	5	30	150	
	InertSustain PFP	Extremely Strong retention of highly polar basic compounds.	L43	3, 5	10	350
	InertSustain Phenylhexyl	Strong π-π interactions and hydrophobic interactions	L11	3, 5	10	350
	InertSustain Phenyl	Extremely strong π-π interactions	L11	2, 3, 5	10	350
	Inertsil Ph-3	Strong π-π interactions	L11	2, 3, 5	10	450
	Inertsil Ph	High inertness, Weak π-π interactions	L11	5	15	320
HILIC	InertSustain Amide	First choice for HILIC mode	L68	3, 5	10	350
	Inertsil Amide	Increasing retentivity of high polar compounds	L68	3, 5	10	450
	Inertsil HILIC	Separation of highly polar basic compounds	L20	3, 5	10	450
	InertSustain NH2	First choice for sugar analysis	L8	3, 5	10	350
	Inertsil NH2	Sugar analysis, High retentive in normal phase mode	L8	3, 5	10	450
Normal Phases	Inertsil Diol	First choice for normal phase mode, For SEC	L20	3, 5	10	450
	Inertsil SIL-100A	Ultra pure silica gel with 100Å pore size	L3	3, 5	10	450
	Inertsil SIL-150A	Ultra pure silica gel with 150Å pore size	L3	5	15	320
	Inertsil WP300 SIL	Ultra pure silica gel with 300Å pore size	L3	5	30	150
	InertSustain Cyano	Ultra inertness and can be used in reversed phase mode	L10	3, 5	10	350
	Inertsil CN-3	Can be also used in reversed phase mode	L10	3, 5	10	450
SEC	Inertsil WP300 Diol	High molecule SEC, Can be also used in normal phase mode	L20, L33	5	30	150
Ion-Exchange	Inertsil AX	Anion-exchange column	—	5	10	450
	Inertsil CX	Cation-exchange column	L9	5	10	450
Application Specific Columns	InertSustainBio C18	Using for the peptides and protein with 200Å pore size	L1	1.9, 3	20	200
	SYPRON AX-1	Ion exchange column for bromate analysis by LC/MS	—	5	—	—
	SYPRON AX-2	Ion exchange column for organic acid analysis by LC/MS	—	5	—	—
	InertSphere Sugar-1	Sugar analysis with ECD	—	5	—	—
	InertSphere Sugar-2	Sugar analysis with SEC and ligand exchange mode	—	5	—	—
	Inertsil Peptides C18	Peptide analysis	L1	4	10	450
	Inertsil Acrolein C18	Acrolein analysis	L1	5	10	450
	Inertsil Sulfa C18	Sulfa analysis	L1	3, 5	10	450
	Inertsil AS	Arsenic compounds analysis	L1	3	10	450
	InertSphere FA-1	Povidone impurity analysis column	L17	9	—	—
	MonoCap Series	Monolithic silica capillary column				

	Column	Carbon Loading (%)	End-Capping	Inertness	Recommended pH range
Reversed Phases	InertSustain C18	14	o	★★★★★	1 - 10
	InertSustain AQ-C18	13	o	★★★★★	1 - 10
	InertSustainSwift C18	9	o	★★★★★	1 - 10
	Inertsil ODS-HL	23	o	★★★★★	2 - 7.5
	Inertsil ODS-4	11	o	★★★★★	2 - 7.5
	Inertsil ODS-4V	11	o	★★★★★	2 - 7.5
	Inertsil ODS-3	15	o	★★★★	2 - 7.5
	Inertsil ODS-3V	15	o	★★★★	2 - 7.5
	Inertsil ODS-SP	8.5	o	★★★★	2 - 7.5
	Inertsil ODS-P	29	-	★★★	2 - 7.5
	Inertsil ODS-EP	9	-	★★★★	2 - 7.5
	Inertsil WP300 C18	9	o	★★★★	2 - 7.5
	Inertsil ODS-80A	17.5	o	★★★★	2 - 7.5
	Inertsil ODS-2	18.5	o	★★★★	2 - 7.5
Inertsil ODS	14	o	★★	2 - 7.5	
Other Reversed Phases	InertSustain C8	8	o	★★★★★	1 - 10
	InertSustainSwift C8	6	o	★★★★★	1 - 10
	Inertsil C8-4	5	o	★★★★★	2 - 7.5
	Inertsil C8-3	9	o	★★★★	2 - 7.5
	Inertsil C8	10.5	o	★★	2 - 7.5
	Inertsil C4	7.5	o	★★★★	2 - 7.5
	Inertsil WP300 C8	4	o	★★★★	2 - 7.5
	Inertsil WP300 C4	3	-	★★★★	2 - 7.5
	InertSustain PFP	10	o	★★★★★	2 - 7.5
	InertSustain Phenylhexyl	9	o	★★★★★	1 - 10
	InertSustain Phenyl	10	-	★★★★	2 - 7.5
	Inertsil Ph-3	9.5	-	★★★	2 - 7.5
	Inertsil Ph	10	o	★★★	2 - 7.5
	HILIC	InertSustain Amide	15	-	—
Inertsil Amide		18	-	—	2 - 7.5
Inertsil HILIC		20	-	—	2 - 7.5
InertSustain NH2		7	-	—	2 - 7.5
Inertsil NH2		8	-	—	2 - 7.5
Normal Phase	Inertsil Diol	20	-	—	2 - 7.5
	Inertsil SIL-100A	—	-	—	2 - 7.5
	Inertsil SIL-150A	—	-	—	2 - 7.5
	Inertsil WP300 SIL	—	-	—	2 - 7.5
	InertSustain Cyano	8	o	★★★★	2 - 7.5
Inertsil CN-3	14	-	—	2 - 7.5	
SEC	Inertsil WP300 Diol	9	-	—	2 - 7.5
Ion-Exchange	Inertsil AX	17	-	—	2 - 7.5
	Inertsil CX	14	-	—	2 - 7.5
Application Specific Columns	InertSustainBio C18	9	o	★★★★★	1 - 10
	SYPRON AX-1	—	-	—	3 - 7
	SYPRON AX-2	—	-	—	—
	InertSphere Sugar-1	—	-	—	2 - 14
	InertSphere Sugar-2	—	-	—	—
	Inertsil Peptides C18	15	o	★★★★	2 - 7.5
	Inertsil Acrolein C18	9	o	★★★★	2 - 7.5
	Inertsil Sulfa C18	15	o	★★★★	2 - 7.5
	Inertsil AS	15	o	★★★	2 - 7.5
	InertSphere FA-1	—	-	—	—
	MonoCap Series				