Overview of *GROM* SIL phases

	Stationary Phase	Particle Size µm 1.5	2	3	4	5	7	10	prep. material	spherical	end-capped	polymeric bonding	Pore Diameter Å	Surface Area m^2/g	Pore Volumne ml/g	% C	Recommended pH of Mobile Phase	Field of Applications	Abbreviation for the order number
C18	GROM-SIL ... ODS-0 AB (acid/base deactivated)	x		x		x		x		x	x		100	200	0.5	11	2 - 8	fat-soluble Vitamins, ...	GS OD 0.....
	GROM-SIL ... ODS-1 PE (partially endcapped)			x		x		x		x	x		80, 100	220, 200	0.5, 0.5	7, 6	2 - 8	Drugs: Antibiotics, Anti-	GS OD 1.....
	GROM-SIL ... ODS-2 FE (fully endcapped)	x		x		x		x		x	x		80, 100, 300	220, 200, 100	0.5, 0.78, 1	12, 11, 6	2 - 8	histamines, Barbiturates	GS OD 2.....
	GROM-SIL ... ODS-3 CP (encapsulated)			x		x	x	x	x	x		x	120, 300	320, 170	0.8, 0.7	15, 6	1 - 10	etc. ... , Herbicides, Fungi-	GS OD 3.....
	GROM-SIL ... ODS-4 HE (hydrophilic endcapping)			x	x	x	x	x	x	x	x		120, 200	300, 200	1.0, 0.95	16, 11	2 - 8	cides, Bacteriocides,	GS OD 4.....
	GROM-SIL ... ODS-5 ST (standard)			x	x	x	x	x	x	x	x		60, 120, 200, 300	580, 300, 200, 150	1.1, 1.0, 0.95, 0.7	22, 17,12, 7	2 - 8	Pesticides ..., Nucleotides,	GS OD 5.....
	GROM-SIL ... ODS-6 NE (non endcapped)			x		x							120	300	1.0	17	2 - 8	Catecholamines, ...	GS OD 6.....
	GROM-SIL ... ODS-7 pH (pH-stable)				x							x	80	510	1.0	22	1 - 10	Peptides, Proteins, ...	GS OD 7.....
	GROM Sapphire C18			x		x		x	x	x	x		65, 110	500, 270	0.9, 1.1	23, 16	1.5 - 9		GS OD S.....
	GROM Ruby C18		x							x	x	x	110	130	0.3	11	1.5 - 9		GS OD R.....
C8	GROM-SIL ... Octyl-1 B (base deactivated)			x		x				x	x		100	200	0.5	6.5	2 - 8	Peptides,Proteins, Nucleo-	GS OC 1.....
	GROM-SIL ... Octyl-2 AB (acid/base deactivated)			x		x				x	x		100	200	0.5	5	2 - 8	tides, basic compounds,	GS OC 2.....
	GROM-SIL ... Octyl-3 BA (for bases)			x		x				x	x		120	300	1.0	9	2 - 8	(Amines, etc.), Fatty acids	GS OC 3.....
	GROM-SIL ... Octyl-4 FE (fully endcapped)			x		x		x	x	x	x		80, 100, 300	220, 200, 100	0.5, 0.5, 0.78	6.6, 6, 3	2 - 8	(phenacyl derivatives),	GS OC 4.....
	GROM-SIL ... Octyl-5 CP (encapsulated)			x		x	x	x	x	x		x	120, 300	320, 170	0.8, 0.7	10, 5.5	1 - 10	Angiotensins, drugs ..... ,	GS OC 5.....
	GROM-SIL ... Octyl-6 MB (monomer binding)			x		x		x	x	x	x		120, 200, 300	300, 200, 150	1, 0.95, 0.7	10, 7, 4	2 - 8	Antihistamines, ...	GS OC 6.....
	GROM Sapphire C8			x		x		x	x	x	x		65, 110	500, 270	0.9, 1.1	15, 10	1.5 - 9		GS OC S.....
	GROM Ruby C8		x							x	x	x	110	130	0.3	7	1.5 - 9		GS OC R.....
C6	GROM-SIL ... Hexyl-1 MB (monomeric bonding)					x			x	x	x		80, 100	220, 200	0.5, 0.5	4, 4	2 - 8	Vitamins, Bile acids, ...	GS HE 1.....
																		Polyphenols, ...	
	GROM-SIL ... Phenyl-1 FE (fully endcapped)			x		x		x	x	x	x		120, 300	300, 150	1.0, 0.7	9, 5	2 - 8		GS PH 1.....
	GROM-SIL ... Phenyl-2 CP (encapsulated)					x						x	120, 300	320, 170	0.8, 0.7	7, 4	1.5 - 9		GS PH 2.....
	GROM-SIL ... Phenyl-3 PE (partially endcapped)			x		x		x	x	x	x		80, 100	220, 200	0.5, 0.5	6.6, 6	2 - 8		GS PH 3.....
C4	GROM-SIL ... Butyl-1 ST (standard)			x		x			x	x			120, 300	300, 150	1.0, 0.7	7, 2.5	2 - 8	Proteins, Catechins, ...	GS BU 1.....
	GROM-SIL ... Butyl-2 FE (fully endcapped)			x		x			x	x			300	100	1.0	1,5	2 - 8	Vitamins, ...	GS BU 2.....
	GROM Sapphire C4			x		x		x	x	x	x		65, 110	500, 270	0.9, 0.9	10.5, 7	1.5 - 9		GS BU S.....
C1	GROM-SIL ... TMS-1 ST (standard)			x		x			x	x	x		120, 300	300, 150	1.0, 0.7	4	2 - 8	SFC, H_2O-sol. Vitamins, …	GS TM 1.....
	GROM-SIL ... TMS-2 CP (encapsulated)			x		x			x	x		x	120, 300	320, 170	0.8, 0.7	3	1.5 - 8	Analgesics, ... Phenols, ...	GS TM 2.....
CN	GROM-SIL ...Cyan-1 ST (standard)			x		x				x	x		120, 300	300, 150	1.0, 0.7	4.8	2 - 8	Steroids, Antidepressives,	GS CN 1.....
	GROM-SIL ...Cyan-2 PR (cyanopropyl)			x		x				x	x		80, 100	220, 200	0.5, 0.5	3.5	2 - 8	Polyphenols, Alkaloids,	GS CN 2.....
	GROM-SIL ...Cyan-3 CP (encapsulated)					x				x		x	120	320	0.8	4	1,5 - 8	SFC, ...	GS CN 3.....
NH_2	GROM-SIL ...Amino-1 PR (NH_2-propyl)			x		x		x		x	x		80, 100	220, 200	0,5	2	2 - 8	Mono-,Oligosacharides,	GS NH 1.....
	GROM-SIL ...Amino-2 PA (cross linked Poly- NH_2)					x				x		x	120	300	1.0		2 - 8	(Analysis of beverages),	GS NH 2.....
	GROM-SIL ...Amino-3 CP (encapsulated NH_2-residues)					x			x		x		80	420	1.1		1.5 - 9	H_2O-soluble Vitamins,	GS NH 3.....
	GROM-SIL ...Amino-4 PR (propylamine bonded to silica)			x			x		x				300	100	0.78		2 - 8	Additives, Steroids, ...	GS NH 4.....
Diol	GROM-SIL ...Diol					x		x	x	x			60, 120, 200, 300	580, 300, 200, 150	1.1, 1.0, 0.95, 0.7		2 - 8		GS OH 1.....
Si	GROM-SIL ...Normal Phase-1 ST (standard silica)			x		x		x	x	x			80, 100, ... 1000	220, 200, ...	0.5, 0.5, ..., 1.25		2 - 8	Vitamins, Cortisone,	GS NP 1.....
	GROM-SIL ...Normal Phase-2 SP (spherical silica)			x		x		x	x	x			60, 120, 200,...1000	580, 300, 200, ...	1.1, 1.0, 0.95, ...		2 - 8	SFC ...., Drugs,	GS NP 2.....
	GROM-SIL ...Normal Phase-3 PV (polyvinylalcohol)					x				x		x	120	300	1.0		2 - 8	Lipids, Steroids, Purines,	GS NP 3.....
																		Aflatoxins,	
	GROM-Sapphire			x		x		x	x	x			65, 110	500, 270	0.9, 1.1		2 - 8	tricyclic Antidepressives,	GS NP S.....
IEX	GROM-SIL ...SEC (size exclusion chromatography)					x		x	x	x			60, 120, 200, 300	580, 300, 200, 150	1.1, 1.0, 0.95, 0.7		2 - 8	Peptides, Glycoproteins,	GS SE 1.....
	GROM-SIL ...StrongAnion-1,					x		x		x			80, 100	220, 200	0.5, 0.5		2 - 8	Nucleosides, Nucleotides,	GS SA 1.....
	GROM-SIL ...Weak Anion-2(ion exchange)						x			x			300	100	0.7		2 - 8	Nucleic acids (DNAs,	GS WA 1.....
	GROM-SIL ...StrongCation-1 (ion exchange)					x		x		x			80, 100	220, 200	0.5, 0.5		2 - 8	RNAs), Polysaccharides, etc. ,	GS SC 1.....
	GROM-SIL ...Weak Cation-2(ion exchange)						x			x			300	100	0.7		2 - 8		GS WC 1.....
	GROM-SIL ...HIC (hydrophobic interaction chrom.)						x			x			300	100	0.7		2 - 8		GS HI 1.....

HYDROPHOBICITY

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