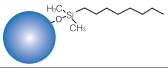
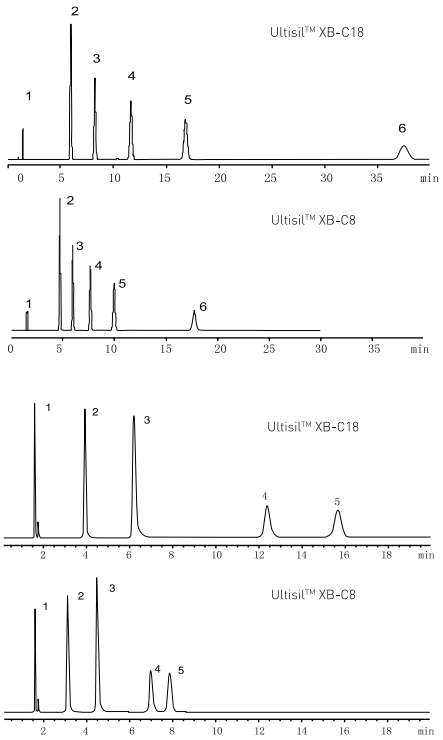
Ultisil™ XB-C8--Less retentive than XB-C18

The XB-C8 phase is less retentive than XB-C18 phase, useful for strong hydrophobic compounds that are too strongly retained on C18 phase, and for LC/MS applications, where long retention is not desired. When separating neutral or other highly retained compounds, XB-C8 can save analytical time. However, when separating polar compounds, XB-C8 column provides different selectivity than does XB-C18 column.

Ultisil™ XB-C8

Structural Formula	
pH Range	1.5-10.0
Particle Size	3 μm, 5 μm, 10 μm
Surface Area(m^2/g)	320(120 Å), 90(300 Å)
Carbon Loading(%)	12(120 Å), 4(300 Å)
USP List	L7
Endcapped	Yes

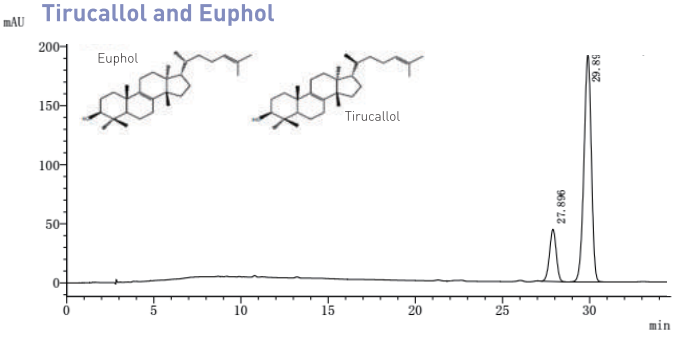
Comparison of Retention of XB-C18 and XB-C8



Column:	4.6 ×150 mm, 5 μm	
Mobile Phase:	Water / acetonitrile=30/70	
Flow rate:	1.0 mL/min	
Detector:	344 nm	
Temperature:	25°C	
Samples:	1) Uracil	4) Butylbenzene
	2) Ethylbenzene	5) Amylbezene
	3) Propylbenzene	6) Heptylbenzene

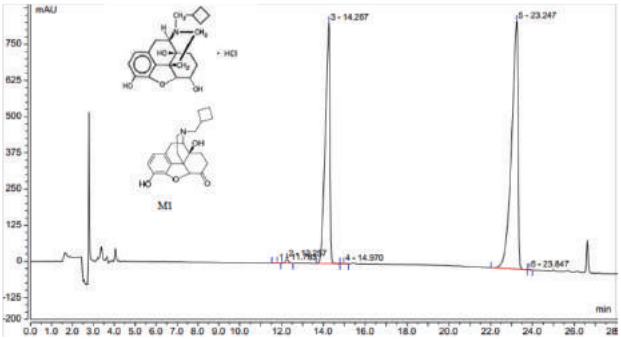
Column:	4.6 ×150 mm, 5 μm	
Mobile Phase:	20 mM phosphate(pH 7.0) / methanol=20 / 80	
Flow rate:	1.0 mL/min	
Detector:	215 nm	
Temperature:	25°C	
Samples:	1) Uracil	4) Amitryptyline
	2) Ropranolol	5) Trimipramine
	3) Ortriptyline	

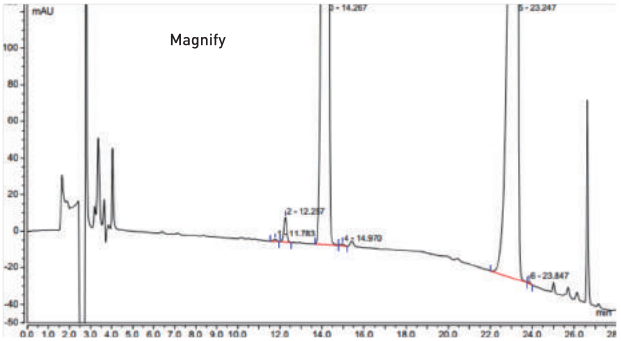
Tirucallol and Euphol



Column:	Ultisil™ XB-C8, 4.6 ×250 mm, 5 μm
Mobile Phase:	Acetonitrile/water=90/10
Flow Rate:	1.0 mL/min
Detector:	210 nm
Temperature:	30°C
Injection Volume:	10 μL

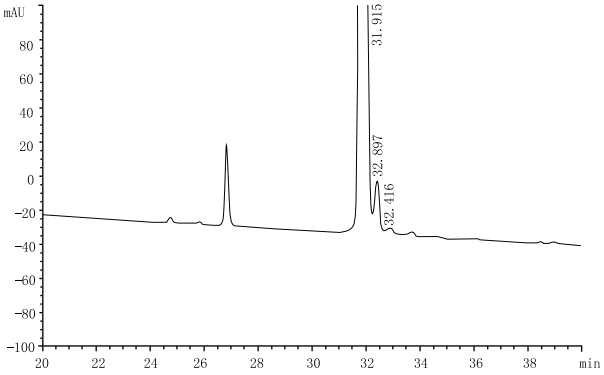
Nalbuphine HCl





Column:	Ultisil™ XB-C8, 4.6 ×250 mm, 5 μm
Mobile Phase:	A: 0.02 mol/L KH_2PO_4 buffer(pH 6.5)(%) B: acetonitrile
Gradient Program:	Time(min) A B 0 80 20 15 70 30 25 40 60 28 40 60 30 80 20 45 80 20
Flow Rate:	1.0 mL/min
Detector:	220 nm
Temperature:	30°C
Injection Volume:	10 μL

Analysis of Insulin Detemir



Column:	Ultisil™ XB-C8, 4.6 ×150 mm, 5 μm
Mobile Phase:	A: 20g $(NH_4)_2SO_4$, 900mL water, 100 mL acetonitrile, adjust pH 2.3 B: acetonitrile/water=80/20; %B=0(0 min) , 30(9 min), 60(40 min)
Flow Rate:	1.0 mL/min
Detector:	214 nm
Temperature:	30 °C
Injection Volume:	20 μL

Ordering Information

Ultisil™ XB-C8

Particle size	Column ID (mm)	Column Length (mm)										Guard Cartridge	Guard Column Holder
		30	33	50	75	100	125	150	200	250	300	10mm length	
3 μm 120 Å	2.1	00202-21009	09202-21009	00202-21010	00202-21011	00202-21012	00202-21013	00202-21014	00202-21015	00202-21016	-	00808-23002	00808-01107
	3.0	00202-21018	-	00202-21019	00202-21020	00202-21021	00202-21022	00202-21023	00202-21024	00202-21025	-	00808-23002	00808-01107
	4.0	00202-21027	-	00202-21028	00202-21029	00202-21030	00202-21031	00202-21032	00202-21033	00202-21034	-	00808-03002	00808-01101
	4.6	00202-21036	11202-21036	00202-21037	00202-21038	00202-21039	00202-21040	00202-21041	00202-21042	00202-21043	-	00808-03002	00808-01101
5 μm 120 Å	2.1	00202-31009	09202-31009	00202-31010	00202-31011	00202-31012	00202-31013	00202-31014	00202-31015	00202-31016	-	00808-24002	00808-01107
	3.0	00202-31018	-	00202-31019	00202-31020	00202-31021	00202-31022	00202-31023	00202-31024	00202-31025	-	00808-24002	00808-01107
	4.0	00202-31027	-	00202-31028	00202-31029	00202-31030	00202-31031	00202-31032	00202-31033	00202-31034	00202-31035	00808-04002	00808-01101
	4.6	00202-31036	11202-31036	00202-31037	00202-31038	00202-31039	00202-31040	00202-31041	00202-31042	00202-31043	00202-31044	00808-04002	00808-01101
10 μm 120 Å	4.0	-	-	-	-	-	-	00202-41032	00202-41033	00202-41034	00202-41035	00808-05002	00808-01101
	4.6	-	-	-	-	-	-	00202-41041	00202-41042	00202-41043	00202-41044	00808-05002	00808-01101

300 Å HPLC column provided. Please contact Welch or your local distributor for other dimensions.