

Core-Shell

Kinetex™ XB-C18 LC Columns

XB-C18 컬럼은 C18 리간드 아래쪽에 양 쪽으로 이소부틸기가 결합되어있어 소수성 선택성을 높이고, 실리카표면과 시료의 원치 않는 상호작용을 차단합니다. 그 결과, **염기성 화합물**의 피크 모양이 개선되고 **산성 화합물**의 머무름이 증가합니다.

Particle Size Recommended Based on System

	5 µm	3.5 µm	2.6 µm	1.7 µm	1.3 µm
UHPLC					
HPLC					
PREP LC					

- ✓ **염기성 화합물 피크 모양 개선**
- ✓ **기존 C18보다 테일링 방지 우수**
- ✓ **Core-Shell 기술로 빠른 분석 & 낮은 압력 한도**
- ✓ **Proteomics · 제약 · 환경 · 식품 등 다분야 활용**
- ✓ **한정 수량 / 특별 조건 공급 중 / 150 X 2.1 mm**
기간 : 9월 15일~ 11월 21일 할인 코드 : KNXXB25

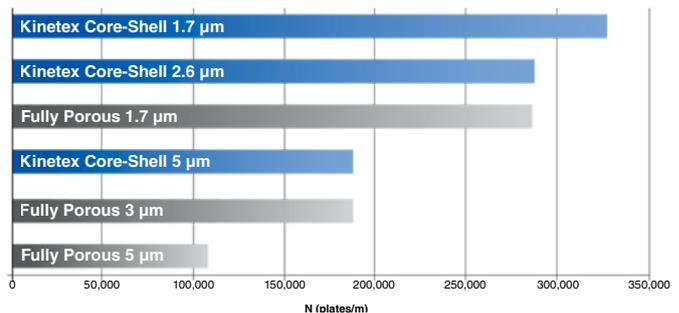
PN : 00F-4496-AN

40% OFF

F&B 100



Core-Shell vs. Fully Porous Efficiency Levels (plates/m)





Kinetex™ XB-C18

USP Classification L1

Recommended Use 중성 및 산성 조건에서 염기성 화합물의 우수한 피크 모양 및 향상된 분리 필요시 사용

XB-C18
(C18 with protective iso-butyl side chains)

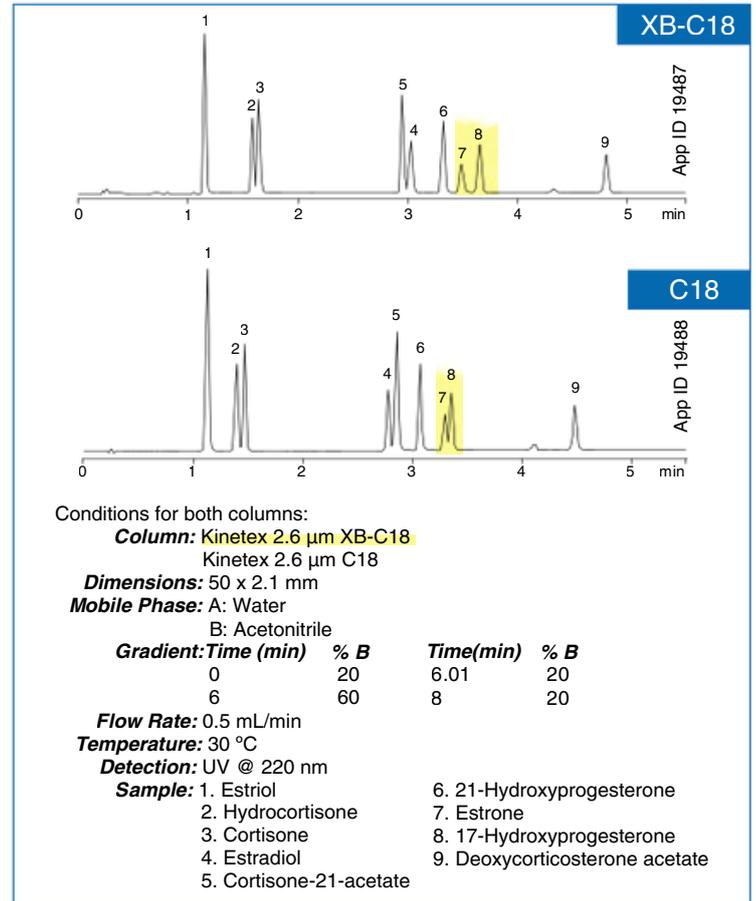
C18

Property	XB-C18	C18
Hydrophobicity	High	High
Steric Interaction	High	Low
Hydrogen Bond Donating Capacity	High	Low
Hydrogen Bond Accepting Capacity	High	Low
Cation Selectivity at pH 2.8	High	Low
Cation Selectivity at pH 7.0	High	Low

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Fully Porous	Kinetex Core-Shell	Average Efficiency Gain with Kinetex*
1.7 μm	vs	2.6 μm
Similar		
3 μm	vs	2.6 μm
85 % Higher		

Steroids Mix using Kinetex 2.6u XB-C18



Separation Mechanisms

	Particle Sizes (μm)	Pore Size (Å)	Effective Surface Area (m2/g)	Effective Carbon Load (%)	pH Range	Pressure Stability (bar/PSI)
Kinetex Phases						
Kinetex Polar C18	2.6	100	200	9	1.5 – 8.5*	1,034/15,000
Kinetex PS C18	2.6	100	200	9	1.5 – 8.5*	1,034/15,000
Kinetex C18	1.3, 1.7, 2.6, 5	100	200	12	1.5 – 8.5*	1,034/15,000
Kinetex EVO C18	1.7, 2.6, 5	100	200	11	1.5 – 12	1,034/15,000
Kinetex XB-C18	1.7, 2.6, 3.5, 5	100	200	10	1.5 – 8.5*	1,034/15,000
Kinetex C8	1.7, 2.6, 5	100	200	8	1.5 – 8.5*	1,034/15,000
Kinetex Biphenyl	1.7, 2.6, 5	100	200	11	1.5 – 8.5*	1,034/15,000
Kinetex Phenyl-Hexyl	1.7, 2.6, 5	100	200	11	1.5 – 8.5*	1,034/15,000
Kinetex F5	1.7, 2.6, 5	100	200	9	1.5 – 8.5*	1,034/15,000

† Shipping conditions may vary slightly in terms of organic to aqueous ratio, depending on column dimensions.

* pH stability under gradient conditions. pH stability is 1.5-10 under isocratic conditions.

**Pressure limits are stable for all Kinetex columns 4.6 mm ID and under. For 10 mm ID Kinetex columns pressure > 413 bar/6000 psi may compromise column longevity. For 21.1, 30, and 50 mm ID Kinetex columns pressure > 241 bar/3500 psi may compromise column longevity.