

Promosil HPLC Columns

Excellent Performance-to-cost Value

- ◆ Double End-cap, Good Inertness
- ◆ Good Stability and Reproducibility
- ◆ Excellent Performance-to-cost Value

Technical Parameters:

High-purity silica, Metal Impurity < 10ppm

Average Particle Size: 5 μ m

Specific Surface: 320m²/g

Pore Size: 100Å

Carbon Loading: 18%

pH Range: 1.5-9.0

Efficiency: > 80, 000/m

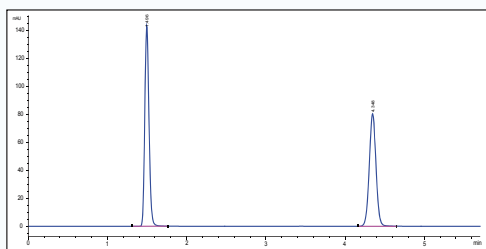
TF: 0.98-1.20



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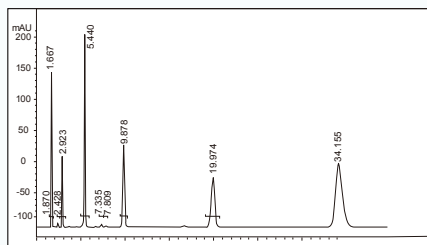
Using the silica of high-purity and high mechanical strength, the Promosil C18s are made with high-purity monosilane through Agela Technologies' well controlled bonding process. They have high surface bonding coverage and completely capped. The carbon content is as much as 18%. They are stable at pH range 1.5-9.0 showing good peak shape for acidic and basic compounds. They have excellent tolerance of contamination and long life-time. They are the best choice of high performance-to-cost value.

Hydrophobicity Test



Column: Promosil C18 (4.6 × 150mm, 5μm)
Sample: Uracil, Toluene
Mobile phase: MeOH: 25 mM KH₂PO₄/K₂HPO₄ (pH 6.0) = 80 : 20
Detection: UV 254nm
Flow rate: 1mL/min

Inertness Test

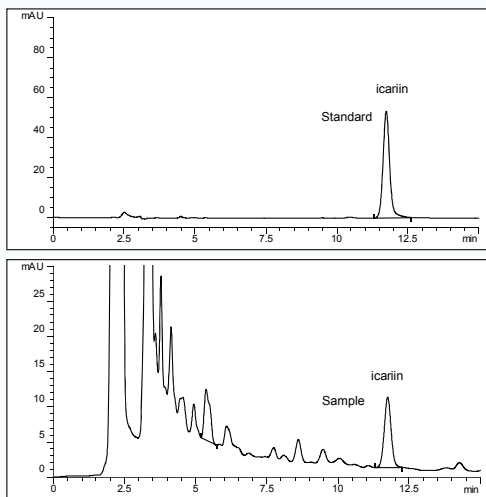


Column: Promosil C18 (4.6 × 150mm, 5μm)
Mobile phase: NaH₂PO₄/Na₂HPO₄(20mM, pH 6.9): MeOH = 32 : 68
Detection: UV 254nm
Flow rate: 1mL/min

Amitriptyline is a strong basic antidepressant. It is recognized to be difficult to obtain good peak shape; But Promosil C18 performed outstandingly and showed good symmetry (TF=1.19)

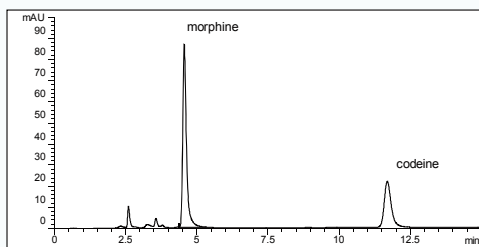
Application

Analysis of Icarin in Chinese traditional medicine



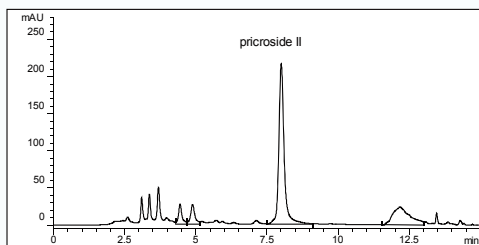
Column: Promosil C18 (4.6×250mm, 5μm)
Mobile phase: ACN:H₂O=25:75
Detection: UV 270nm
Flow rate: 1mL/min

Analysis of Pericarpium papaveris in Chinese traditional medicine



Column: Promosil C18 (4.6 × 250mm, 5μm)
Mobile phase: ACN:H₂O=25:75
Detection: UV 270nm
Flow rate: 1mL/min

Analysis of Picrorhizae in Chinese traditional medicine



Column: Promosil C18 (4.6 × 250mm, 5μm)
Mobile phase: Acetonitril:2% Glacial acetic acid=20:80
Detection: UV 275nm
Flow rate: 1mL/min

Ordering Information

Dimension(mm)	Particle size (μm)	Promosil C18	Promosil C8	Promosil NH ₂	Promosil CN	Promosil Silica
2.1x30	5	PM950302-0	PM850302-0	PM750302-0	PM550302-0	PM050302-0
2.1x50	5	PM950502-0	PM850502-0	PM750502-0	PM550502-0	PM050502-0
2.1x100	5	PM951002-0	PM851002-0	PM751002-0	PM551002-0	PM051002-0
2.1x150	5	PM951502-0	PM851505-0	PM751505-0	PM551505-0	PM051505-0
4.6x50	5	PM950505-0	PM850505-0	PM750505-0	PM550505-0	PM050505-0
4.6x100	5	PM951005-0	PM851005-0	PM751005-0	PM551005-0	PM051005-0
4.6x150	5	PM951505-0	PM851505-0	PM751505-0	PM551505-0	PM051505-0
4.6x250	5	PM952505-0	PM852505-0	PM752505-0	PM552505-0	PM052505-0
4.6x10, 4/pk	5	PM950105-0	PM850105-0	PM750105-0	PM550105-0	PM050105-0
4.6x10, Guard cartridge		CH-100	CH-100	CH-100	CH-100	CH-100

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