

TCI Chiral



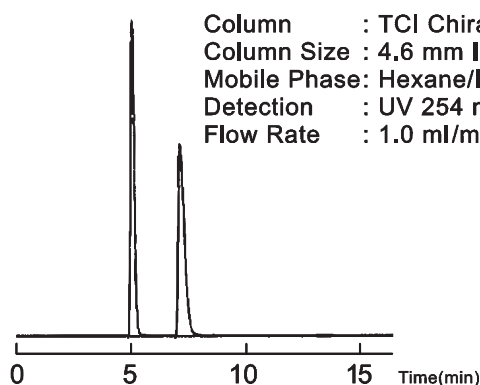
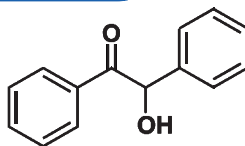
New Chiral HPLC Columns

- A new unique stationary phase design based on a spiral chiral polymer backbone bearing chiral side groups
- Suitable for the separation of a wide range of substrates. Including Carbonyls (Ketones, Esters, Carboxylic acids, Amino acid derivatives), Alcohols, and others
- Performance of both normal and reversed phases
- Superior column longevity
- Three different sidegroups
- High performance 3 μm and 5 μm packing materials

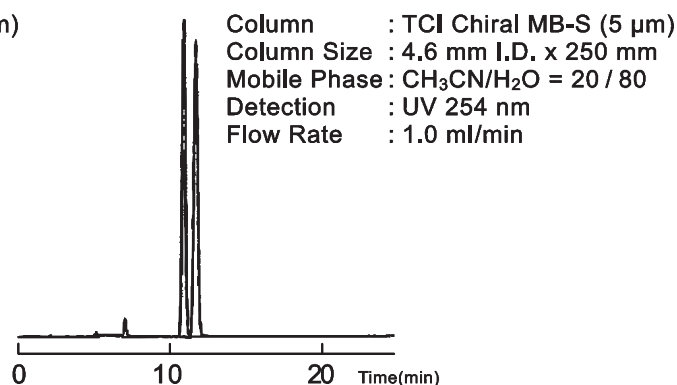


Normal Phase and Reversed Phase

Sample : Benzoin



Normal Phase

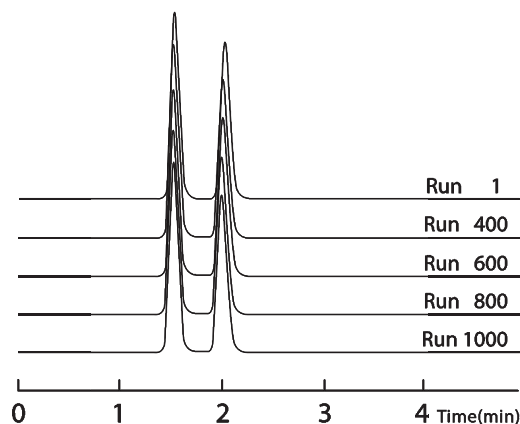


Reversed Phase

Column longevity test: High fidelity after 1000 runs

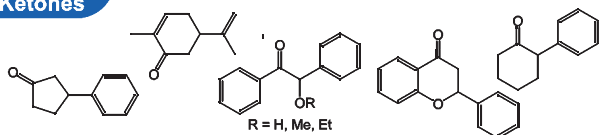
Column : TCI Chiral BP-S (3 μm)
Column Size : 4.6 mm I.D. x 50 mm
Mobile Phase: Hexane/IPA = 90 / 10
Detection : UV 254 nm
Flow Rate : 0.7 ml/min
Temperature : 40°C
Sample : Benzoin

Run #	Separation Factor (α)	Resolution (R_s)
1	2.13	2.41
400	2.14	2.35
600	2.13	2.32
800	2.12	2.30
1000	2.12	2.29

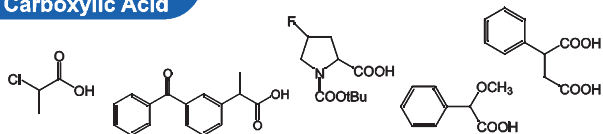


Examples of substrate separations using TCI chiral columns

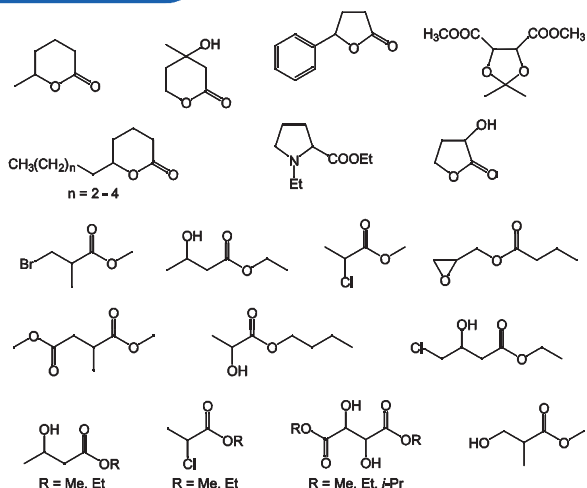
Ketones



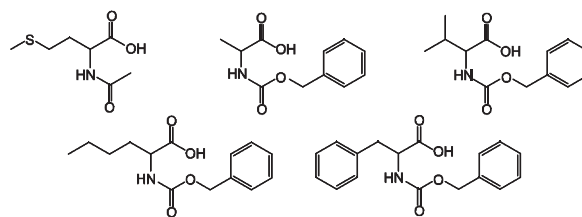
Carboxylic Acid



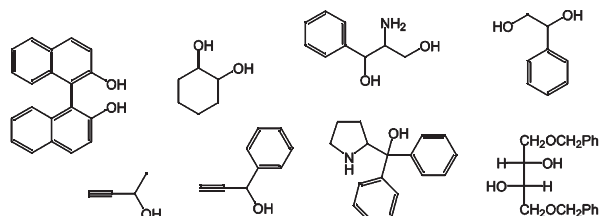
Ester & Lactones



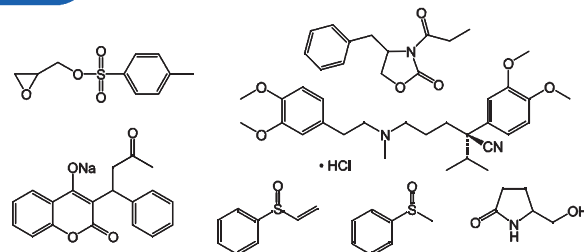
N-Protected Amino Acids



Alcohols & Phenols



Others



Product name	TCI Chiral MB-S		TCI Chiral BP-S		TCI Chiral CH-S	
	Low polarity		Moderate polarity		High polarity	
Target substrates	Especially effective for carbonyl compounds including ketones, esters, carboxylic acids and N-block amino acids					
Particle Size	3 μm	5 μm	3 μm	5 μm	3 μm	5 μm
4.6 mm x 50 mm	S3815	-	S3825	-	S3835	-
4.6 mm x 150 mm	S3810	S3840	S3820	S3850	S3830	S3860
4.6 mm x 250 mm	S3811	S3841	S3821	S3851	S3831	S3861
4.6 mm x 10 mm	S3814	S3844	S3824	S3854	S3834	S3864
2.0 mm x 50 mm	S3816	-	S3826	-	S3836	-
2.0 mm x 150 mm	S3812	S3842	S3822	S3852	S3832	S3862
2.0 mm x 250 mm	S3813	S3843	S3823	S3853	S3833	S3863
10.0 mm x 250 mm	-	S3870	-	S3880	-	S3890
20.0 mm x 250 mm	-	S3871	-	S3881	-	S3891
Guard for 4.6 or 2.0 mm Column						
1.0 mm x 15 mm	S3819 (3/Pack)		S3829 (3/Pack)		S3839 (3/Pack)	
Cartridge Type Guard for 4.6 mm Column						
3.0 mm x 15 mm*	S3849 (1/Pack)		S3859 (1/Pack)		S3869 (1/Pack)	

* Cartridge Type Guard Column requires "TCI OPTI-GUARD-3 Holder" (S1450).



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