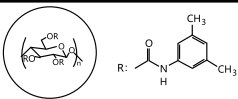


# Ultisil® Chiral Column

Ultisil® Chiral Columns are based on spherical silica particles coated with chiral polymers (amylose derivatives or cellulose derivatives). Welch offers 5 µm and 10 µm particles, and four types of chiral columns: Cellu-D, Cellu-J, Amy-D and Amy-s. 80% of all racemic compounds can be separated by these four chiral columns.

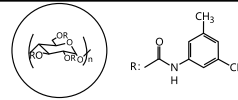
## Ultisil® Cellu-D/Cellu-DR

Cellulose tris (3,5-dimethylphenylcarbamate) coated silica

Structural Formula	
pH Range	2.0-9.0
Particle Size	5 µm, 10 µm
Surface Area(m <sup>2</sup> /g)	320(120 Å)
Carbon Loading(%)	N/A
USP List	L40(Cellu-D), L93(Cellu-DR)
Endcapped	N/A

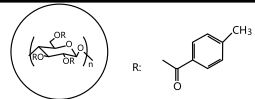
## Ultisil® AMY-D/AMY-DR

Amylose tris (3,5-dimethylphenylcarbamate) coated silica

Structural Formula	
pH Range	2.0-9.0
Particle Size	5 µm, 10 µm
Surface Area(m <sup>2</sup> /g)	320(120 Å)
Carbon Loading(%)	N/A
USP List	L51
Endcapped	N/A

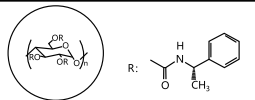
## Ultisil® Cellu-J/Cellu-JR

Cellu-J/Cellu-JR: Cellulose tris (4-methyl benzoate) coated silica

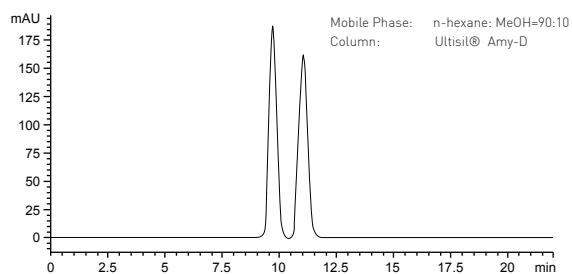
Structural Formula	
pH Range	2.0-9.0
Particle Size	5 µm, 10 µm
Surface Area(m <sup>2</sup> /g)	320(120 Å)
Carbon Loading(%)	N/A
USP List	L80(Cellu-J), L107(Cellu-JR)
Endcapped	N/A

## Ultisil® Amy-S/Amy-SR

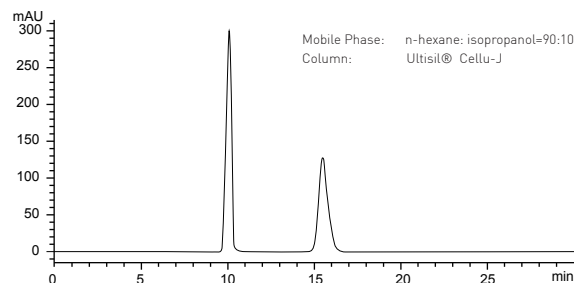
Amylose tris [(S)-α-methylphenyl carbamate] coated Silica

Structural Formula	
pH Range	2.0-9.0
Particle Size	5 µm, 10 µm
Surface Area(m <sup>2</sup> /g)	320(120 Å)
Carbon Loading(%)	N/A
USP List	L90
Endcapped	N/A

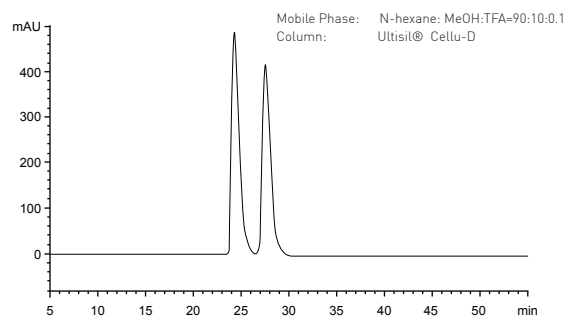
## Fenamiphos



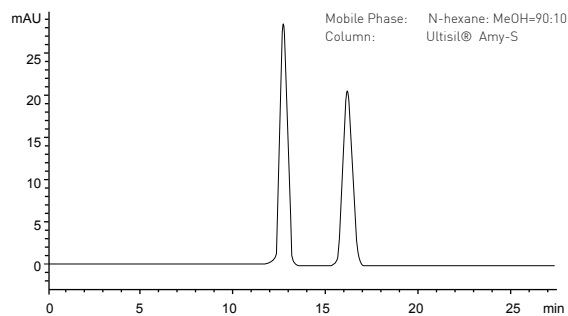
## Tröger's Base



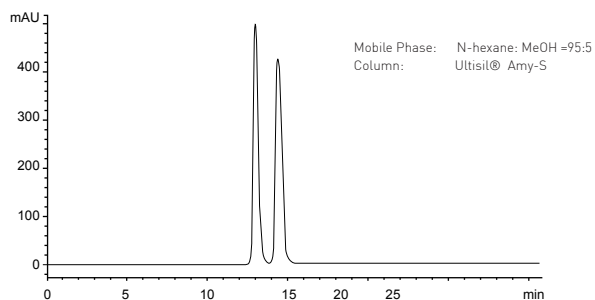
## DL-Repaglinide



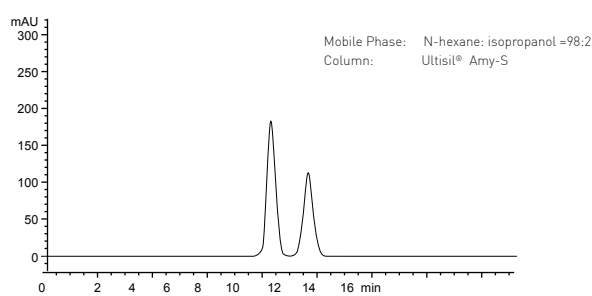
## Myclobutanil



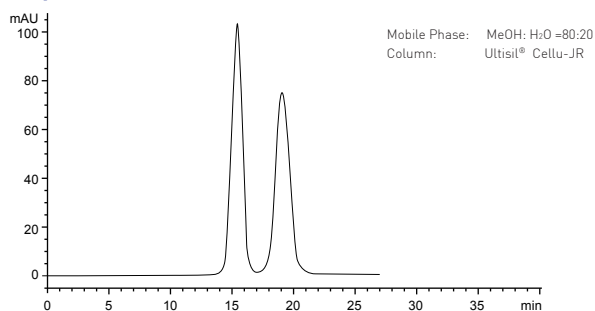
### Quizalofop-ethyl



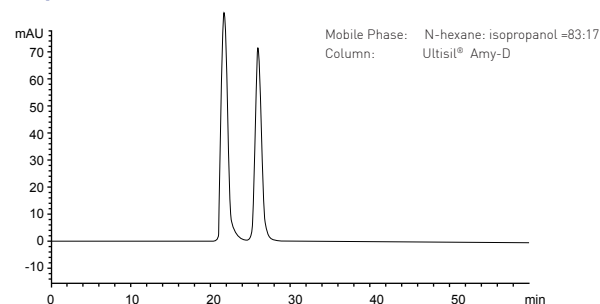
### Oxirane,2-[(phenylmethoxy)methyl]-



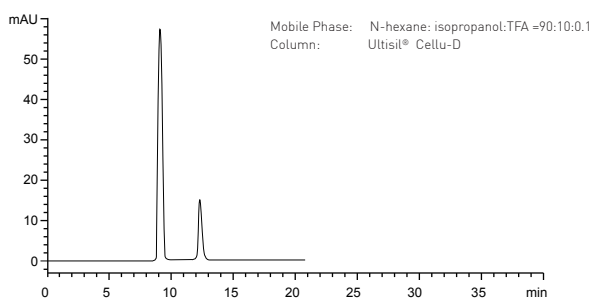
### Llaprazole



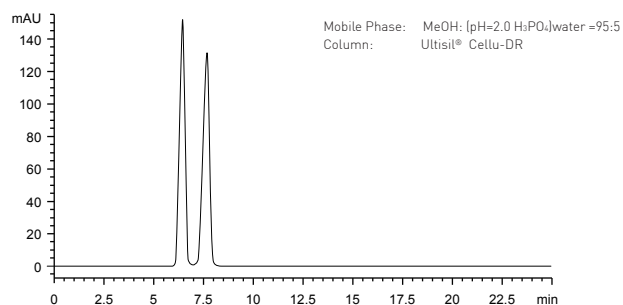
### Omeprazole



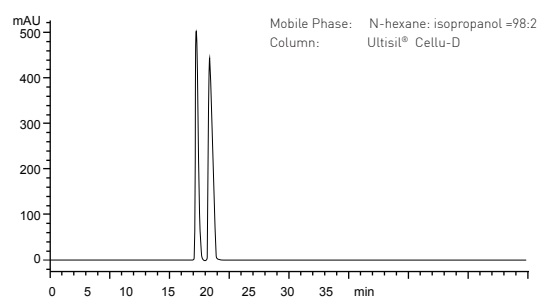
### Alkannin



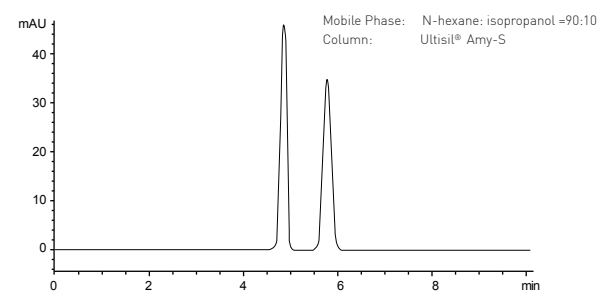
### Fmoc-Leu-OH



### Butylphthalide



### Hexaconazole



### Ordering Information

	Particle size	Column ID(mm)	Column Length (mm)		Guard Cartridge	Cartridge holder
			150	250	10mm length	
Cellu-D	5 µm	4.6	H00219-31041	H00219-31043	H00808-04014	00808-01101
	10 µm	4.6	H00219-41041	H00219-41043	H00808-05021	00808-01101
Cellu-DR	5 µm	4.6	H00262-31041	H00262-31043	H00808-04014-R	00808-01101
	10 µm	4.6	H00262-41041	H00262-41043	H00808-05021-R	00808-01101
Amy-D	5 µm	4.6	H00221-31041	H00221-31043	H00808-04040	00808-01101
	10 µm	4.6	H00221-41041	H00221-41043	H00808-05022	00808-01101
Amy-DR	5 µm	4.6	H00264-31041	H00264-31043	H00808-04040-R	00808-01101
	10 µm	4.6	H00264-41041	H00264-41043	H00808-05022-R	00808-01101

	Particle size	Column ID(mm)	Column Length (mm)		Guard Cartridge	Cartridge holder
			150	250	10mm length	
Cellu-J	5 µm	4.6	H00218-31041	H00218-31043	H00808-04039	00808-01101
	10 µm	4.6	H00218-41041	H00218-41043	H00808-05023	00808-01101
Cellu-JR	5 µm	4.6	H00261-31041	H00261-31043	H00808-04039-R	00808-01101
	10 µm	4.6	H00261-41041	H00261-41043	H00808-05023-R	00808-01101
Amy-S	5 µm	4.6	H00220-31041	H00220-31043	H00808-04041	00808-01101
	10 µm	4.6	H00220-41041	H00220-41043	H00808-05024	00808-01101
Amy-SR	5 µm	4.6	H00263-31041	H00263-31043	H00808-04041-R	00808-01101
	10 µm	4.6	H00263-41041	H00263-41043	H00808-05024-R	00808-01101