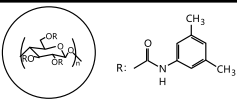


# Ultisil® Chiral Column

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.

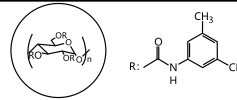
## Ultisil® Cellu-D/Cellu-DR

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

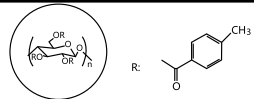
## Ultisil® AMY-D/AMY-DR

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

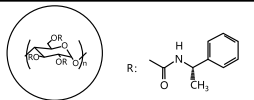
## Ultisil® Cellu-J/Cellu-JR

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

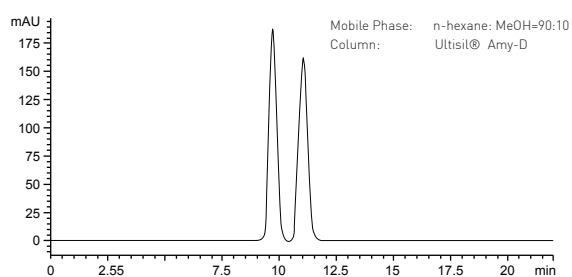
Structural Formula	
pH Range	2.0-9.0
Particle Size	5 µm, 10 µm
Surface Area(m <sup>2</sup> /g)	320(120 Å)
Carbon Loading[%]	N/A
USP List	L80(Cellu-J), L107(Cellu-JR)
Endcapped	N/A

## Ultisil® Amy-S/Amy-SR

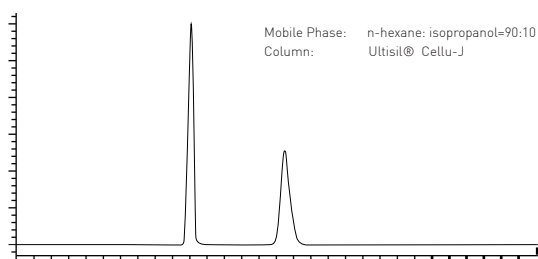
Amylose tris [(S)-α-methylphenyl carbamate] coated Silica

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

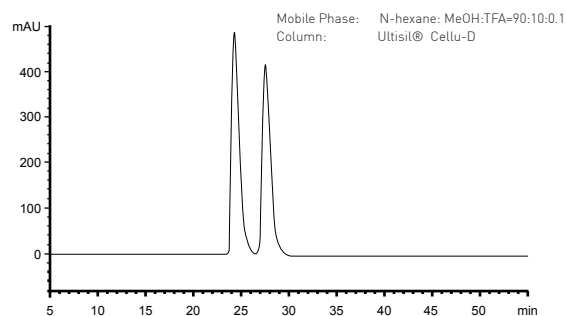
### Fenamiphos



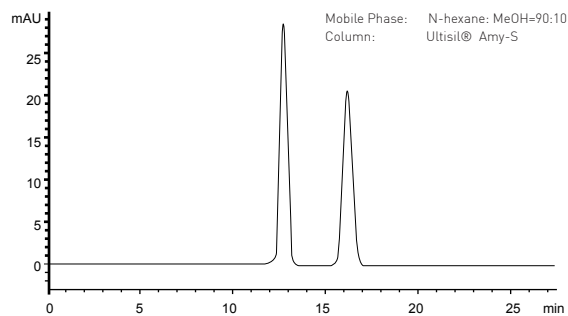
### Tröger's Base



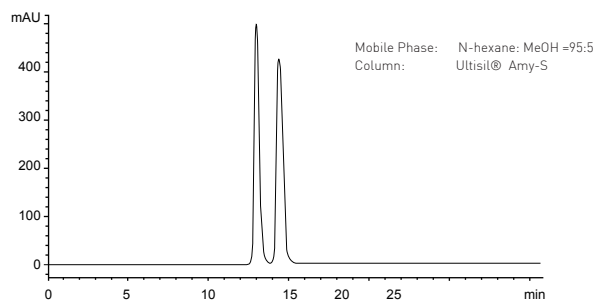
### DL-Repaglinide



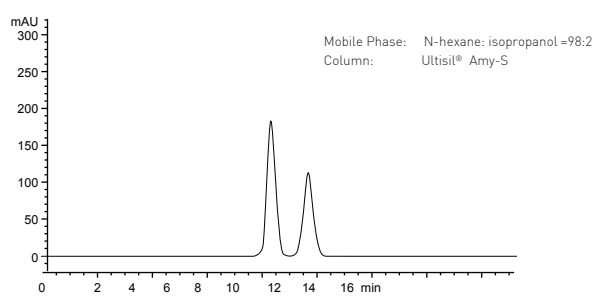
### Myclobutanil



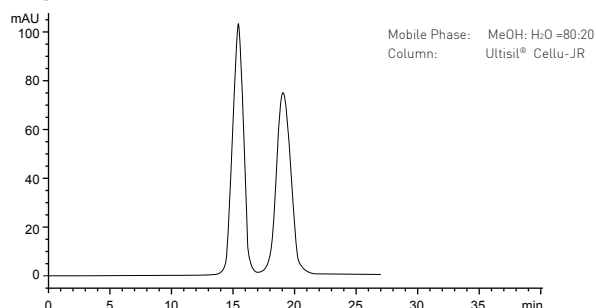
### Quizalofop-ethyl



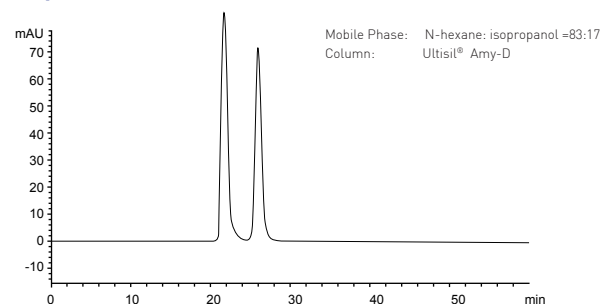
### Oxirane,2-[(phenylmethoxy)methyl]-



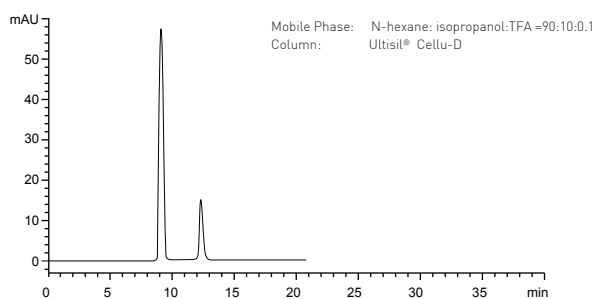
### Llaprazole



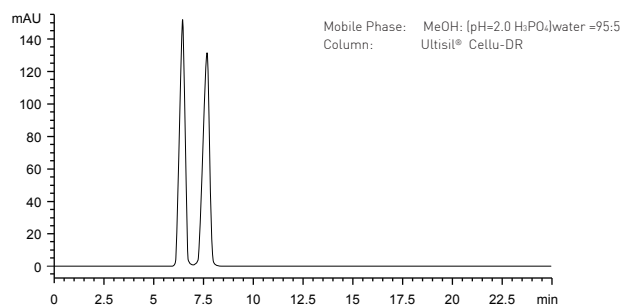
### Omeprazole



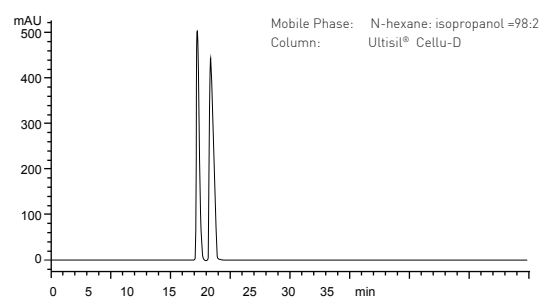
### Alkannin



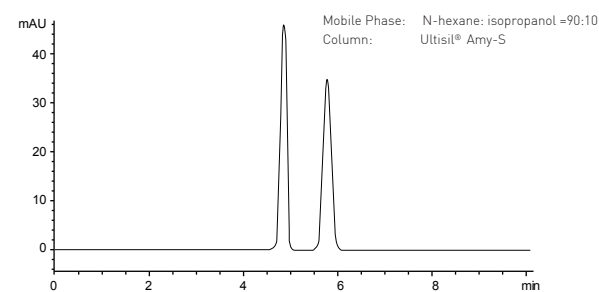
### Fmoc-Leu-OH



### Butylphthalide



### Hexaconazole



### Ordering Information

	Particle size	Column ID(mm)	Column Length (mm)		Guard Cartridge	Cartridge holder		Particle size	Column ID(mm)	Column Length (mm)		Guard Cartridge	Cartridge holder
			150	250	10mm length				150	250	10mm length		
Cellu-D	5 µm	4.6	H00219-31041	H00219-31043	H00808-04014	00808-01101	Cellu-J	5 µm	4.6	H00218-31041	H00218-31043	H00808-04039	00808-01101
	10 µm	4.6	H00219-41041	H00219-41043	H00808-05021	00808-01101		10 µm	4.6	H00218-41041	H00218-41043	H00808-05023	00808-01101
Cellu-DR	5 µm	4.6	H00262-31041	H00262-31043	H00808-04014-R	00808-01101	Cellu-JR	5 µm	4.6	H00261-31041	H00261-31043	H00808-04039-R	00808-01101
	10 µm	4.6	H00262-41041	H00262-41043	H00808-05021-R	00808-01101		10 µm	4.6	H00261-41041	H00261-41043	H00808-05023-R	00808-01101
Amy-D	5 µm	4.6	H00221-31041	H00221-31043	H00808-04040	00808-01101	Amy-S	5 µm	4.6	H00220-31041	H00220-31043	H00808-04041	00808-01101
	10 µm	4.6	H00221-41041	H00221-41043	H00808-05022	00808-01101		10 µm	4.6	H00220-41041	H00220-41043	H00808-05024	00808-01101
Amy-DR	5 µm	4.6	H00264-31041	H00264-31043	H00808-04040-R	00808-01101	Amy-SR	5 µm	4.6	H00263-31041	H00263-31043	H00808-04041-R	00808-01101
	10 µm	4.6	H00264-41041	H00264-41043	H00808-05022-R	00808-01101		10 µm	4.6	H00263-41041	H00263-41043	H00808-05024-R	00808-01101