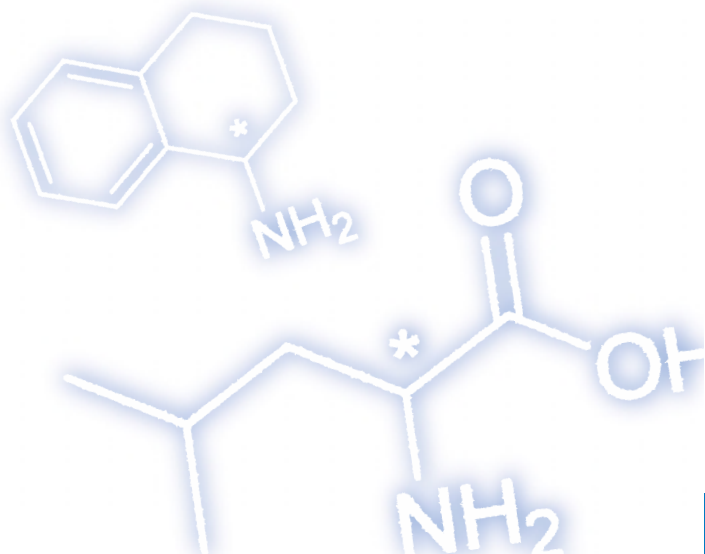
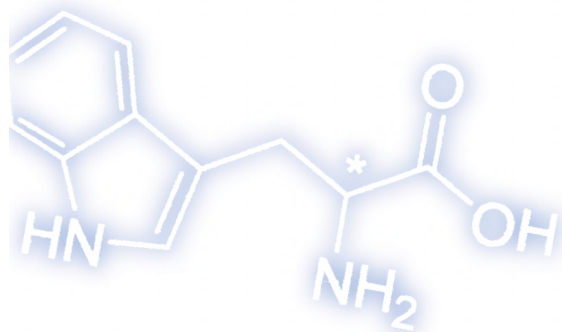
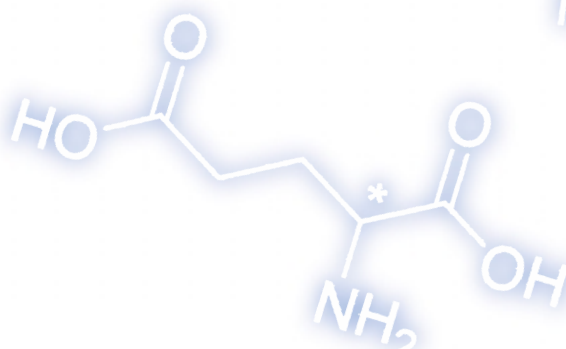
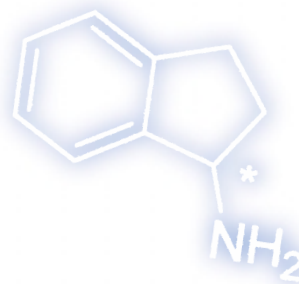
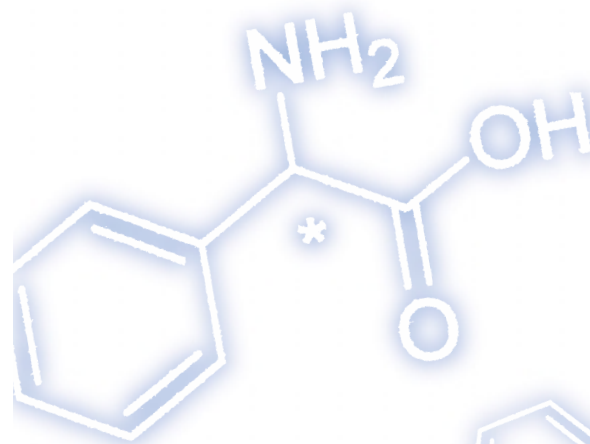


RStech Corporation

# CHIROSIL<sup>®</sup>

## RCA(+) and SCA(-)

### CHIRAL HPLC COLUMNS



EXCLUSIVE U.S. DISTRIBUTOR

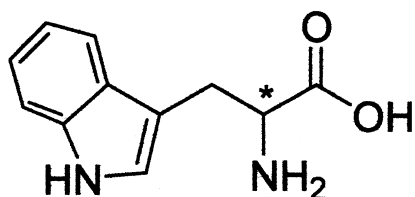
# Regis is proud to introduce the newest member to its chiral family...

the ChiroSil® RCA(+) and SCA(-) chiral stationary phases. Developed by RStech Corporation in Daejeon, Korea, the ChiroSil phase is the newest addition to our chiral line of columns. This phase is prepared by a covalent trifunctional bonding of (+) or (-) – (18-Crown-6)-tetracarboxylic acid as the chiral selector.

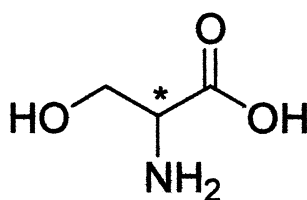
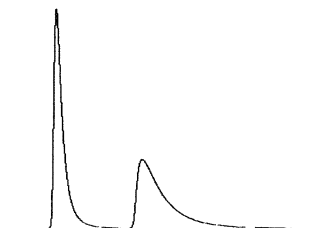
This phase, which is available in analytical as well as preparative columns, is an excellent choice for the separation of amino acids and compounds containing primary amines.

Like our other line of columns, this phase is highly durable, has universal solvent compatibility, and has the ability to invert elution order.

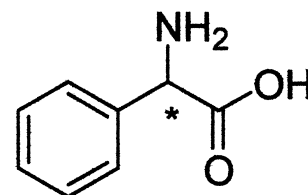
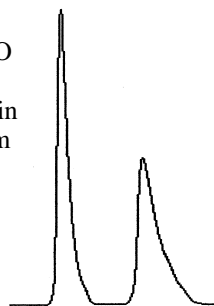
Check out our website: [www.registech.com/chiral/](http://www.registech.com/chiral/)



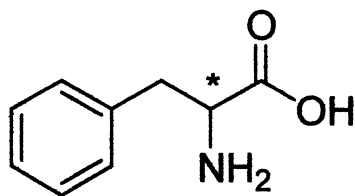
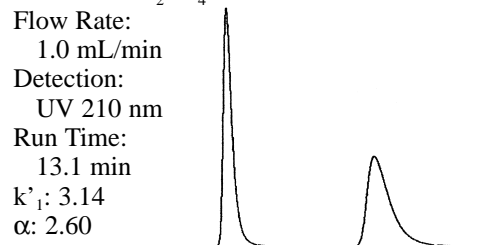
Sample: Tryptophan  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase: (70/30) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate:  
 1.5 mL/min  
 Detection:  
 UV 210 nm  
 Run Time:  
 11.0 min  
 $k'_1$ : 4.06  
 $\alpha$ : 2.15



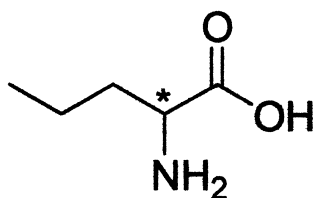
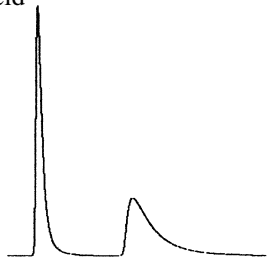
Sample: Serine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (84/16) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +5 mM HClO<sub>4</sub>  
 Flow Rate: 0.8 mL/min  
 Detection: UV 210 nm  
 Run Time: 6.0 min  
 $k'_1$ : 1.37  
 $\alpha$ : 1.99



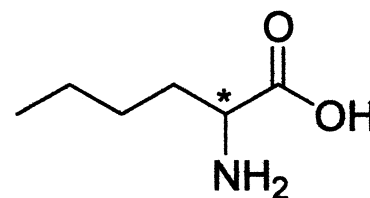
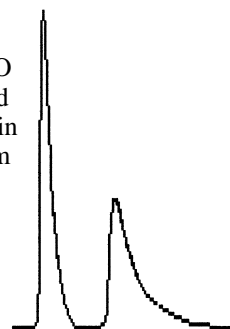
Sample: Phenylglycine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase: (70/30) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM H<sub>2</sub>SO<sub>4</sub> and 0.1% TEA  
 Flow Rate:  
 1.0 mL/min  
 Detection:  
 UV 210 nm  
 Run Time:  
 13.1 min  
 $k'_1$ : 3.14  
 $\alpha$ : 2.60



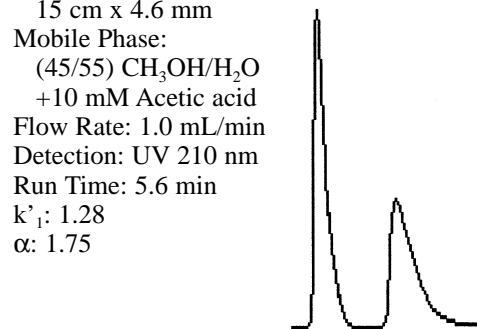
Sample: Phenylalanine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase: (70/30) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate:  
 1.5 mL/min  
 Detection:  
 UV 210 nm  
 Run Time: 8.9 min  
 $k'_1$ : 2.66  
 $\alpha$ : 2.57

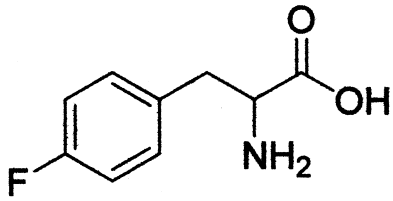


Sample: Norvaline  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (45/55) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate: 1.0 mL/min  
 Detection: UV 210 nm  
 Run Time: 5.3 min  
 $k'_1$ : 1.15  
 $\alpha$ : 1.79

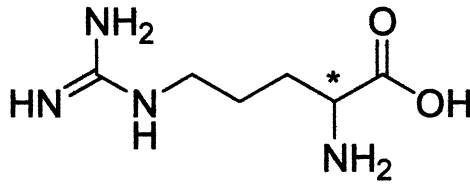
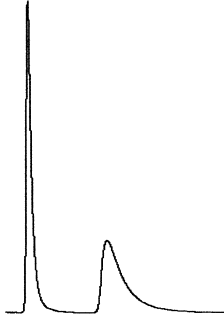


Sample: Norleucine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (45/55) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate: 1.0 mL/min  
 Detection: UV 210 nm  
 Run Time: 5.6 min  
 $k'_1$ : 1.28  
 $\alpha$ : 1.75

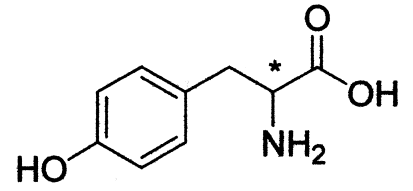
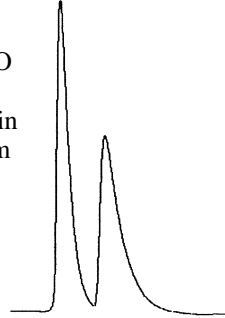




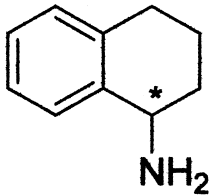
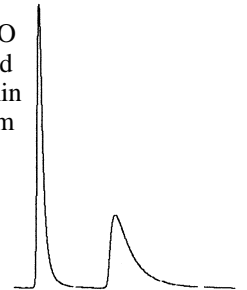
Sample: 4-Fluorophenylalanine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (70/30) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate: 1.5 mL/min  
 Detection: UV 210 nm  
 Run Time: 9.6 min  
 $k'_1$ : 2.92  
 $\alpha$ : 2.56



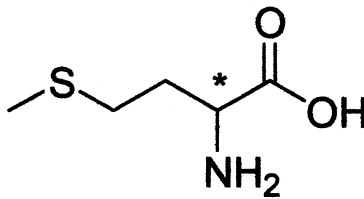
Sample: Arginine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (84/16) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM H<sub>2</sub>SO<sub>4</sub>  
 Flow Rate: 0.8 mL/min  
 Detection: UV 210 nm  
 Run Time: 4.9 min  
 $k'_1$ : 1.21  
 $\alpha$ : 1.64



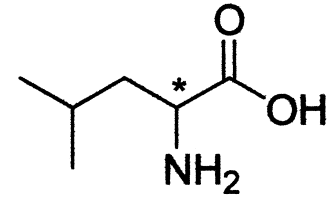
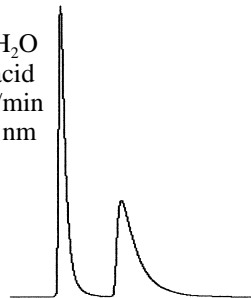
Sample: Tyrosine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (70/30) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate: 1.5 mL/min  
 Detection: UV 210 nm  
 Run Time: 9.1 min  
 $k'_1$ : 2.95  
 $\alpha$ : 2.38



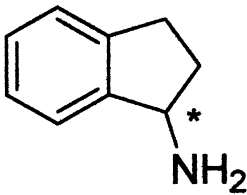
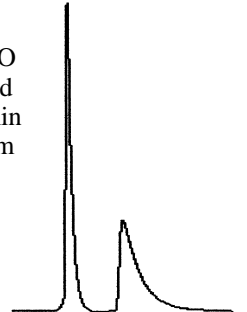
Sample: 1,2,3,4-Tetrahydro-1-naphthylamine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (84/16) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM H<sub>2</sub>SO<sub>4</sub> and  
 0.1% TEA  
 Flow Rate: 1.0 mL/min  
 Detection: UV 210 nm  
 Run Time: 3.5 min  
 $k'_1$ : 0.82  
 $\alpha$ : 1.76



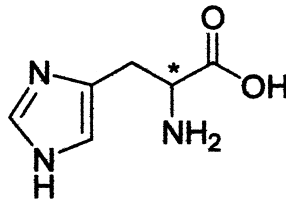
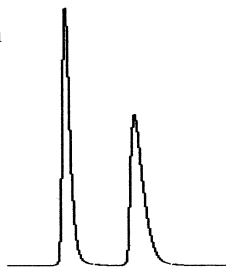
Sample: Methionine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (45/55) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate: 1.0 mL/min  
 Detection: UV 210 nm  
 Run Time: 7.5 min  
 $k'_1$ : 1.64  
 $\alpha$ : 2.04



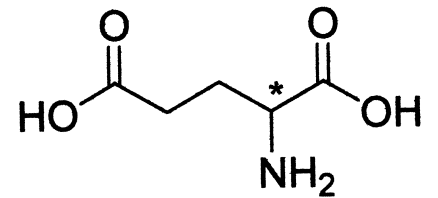
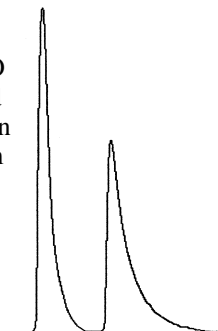
Sample: Leucine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (45/55) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate: 1.0 mL/min  
 Detection: UV 210 nm  
 Run Time: 5.5 min  
 $k'_1$ : 1.03  
 $\alpha$ : 2.14



Sample: 1-Aminoindan  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase: (84/16) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +5 mM HClO<sub>4</sub>  
 Flow Rate: 1.0 mL/min  
 Detection: UV 210 nm  
 Run Time: 4.8 min  
 $k'_1$ : 1.44  
 $\alpha$ : 1.91



Sample: Histidine  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (45/55) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +10 mM Acetic acid  
 Flow Rate: 1.0 mL/min  
 Detection: UV 210 nm  
 Run Time: 26.0 min  
 $k'_1$ : 10.96  
 $\alpha$ : 1.27



Sample: Glutamic Acid  
 Column: ChiroSil® RCA(+) or SCA(-)  
 15 cm x 4.6 mm  
 Mobile Phase:  
 (65/35) CH<sub>3</sub>OH/H<sub>2</sub>O  
 +0.05% Phosphoric acid  
 Flow Rate: 1.0 mL/min  
 Detection: UV 210 nm  
 Run Time: 4.5 min  
 $k'_1$ : 0.71  
 $\alpha$ : 2.27

