

Ceramospher[®] and Chiral CD-Ph

By Shiseido Co., Ltd.

Ceramospher[®] Chiral Columns

- High-efficiency, pressure-stable ceramic-based materials
- Choice of normal or aqueous mobile phase conditions
- Enantioselectivity for acidic, basic and neutral chiral compounds
- High loadability combined with long column lifetimes

Based on 5 μm 40 \AA spherical sodium magnesium silicate particles, Ceramospher phases RU-1 and RU-2 are novel materials for chiral HPLC separations. Enantiomer resolution is accomplished on an ion-exchange adduct of the base clay material in combination with an optically-active metal complex (based on ruthenium).

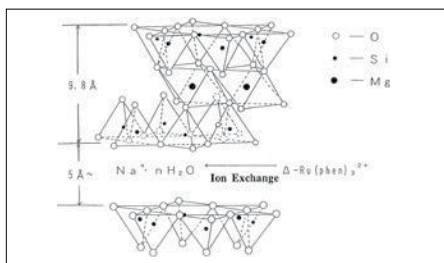
Ceramospher Phases

RU-1. Used for normal phase separations of a wide variety of chiral compounds, typical mobile phases include: 1% isopropanol-amine or dimethylamine in alcohol (methanol or ethanol) for basic compounds, and 1% acetic acid in alcohol for acidic compounds. Retention can be controlled by adding small percentages of hexane to these eluents.

RU-2. Treating the base material with a hydrophobic agent imparts excellent stability under aqueous conditions. Water is typically combined with methanol or acetonitrile in the mobile phase. When the content of water in the eluent is 30% or higher, the retention mechanism appears to be based on typical reversed phase partitioning; when water makes up 5% or less of the eluent, separations appear to be based on normal phase partitioning. Because of the long lifetime expected, this material is well suited for preparative use.



Call Phenomenex for a complete listing of Ceramospher chiral applications.



Ordering Information

Ceramospher and Chiral CD-Ph Chiral Columns

Part No.	Mfr. No.	Dimensions (mm)	Price
RU-1			
CHO-3904	50503	150 x 4.6	
CHO-3905	50504	250 x 4.6	
RU-2			
CHO-3906	50603	150 x 4.6	
CHO-3907	50604	250 x 4.6	
Chiral CD-Ph			
CHO-5862	80054	250 x 4.6	

Phenomenex

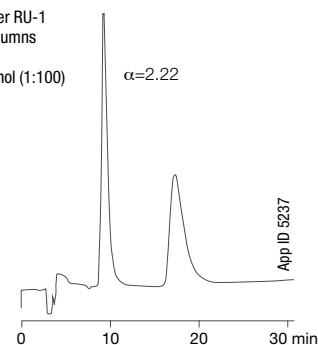
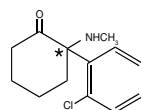
Chiral CD-Ph Columns

Made of precisely classified high-purity silica, this versatile chiral stationary phase is modified with phenylcarbamated β -cyclodextrin.

- Suitable for separation of basic, neutral, and amphoteric optical isomers
- Usable with both aqueous and non-aqueous mobile phases
- High durability
- High sample loadability

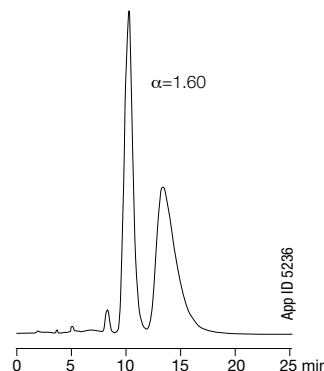
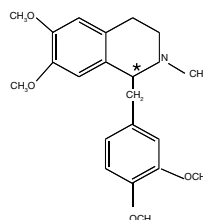
Ketamine

Column: Shiseido Ceramospher RU-1
Dimensions: 250 x 4.6 mm x 2 columns
Part No.: CHO-3905
Mobile Phase: Triethylamine/Methanol (1:100)
Flow Rate: 1.0 mL/min
Temperature: 50 °C
Detection: UV @ 254 nm



Laudanosine

Column: Shiseido Ceramospher RU-2
Dimensions: 250 x 4.6 mm
Part No.: CHO-3907
Mobile Phase: Diethylamine/Water/Acetonitrile (0.1:10:90)
Flow Rate: 0.5 mL/min
Temperature: 50 °C
Detection: UV @ 254 nm



Atropine

Column: Shiseido Chiral CD-Ph
Dimensions: 250 x 4.6 mm
Part No.: CHO-5862
Mobile Phase: 0.5 mol/L NaClO₄/CH₃CN (70:30)
Flow Rate: 0.5 mL/min
Temperature: 25 °C
Detection: UV @ 220 nm
Injection Vol.: 10 μL

