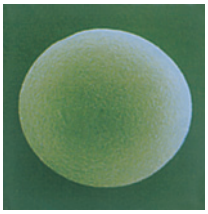
SHISEIDO CHIRAL COLUMNS

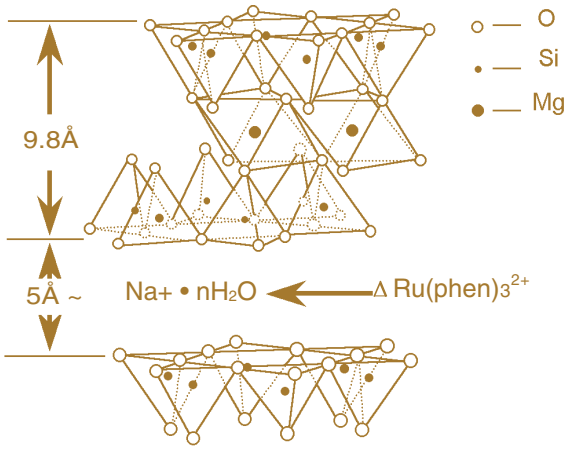
- High efficiency and stability against pressure
- Choice of normal or aqueous mobile phase condition
- Exceptional enantioselectivity for acidic, basic and neutral chiral compounds
- Stable under a wide temperature range
- High loadability combined with long column lifetime

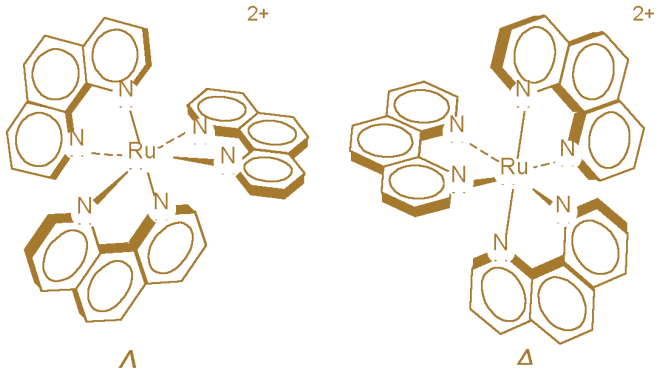


Ceramospher

Chiral RU-1, RU-2

Based on 5-µm spherical sodium magnesium silicate particles, Ceramospher phases RU-1 and RU-2 are novel materials for chiral HPLC separations. Chiral separation is accomplished by an optically-active ruthenium complex that has been ion exchanged with sodium ions in the original clay material. Ceramospher phases show excellent selectivity for a wide variety of chiral samples.
Ceramospher has the remarkable loadability due to its large specific surface area (pore size 4 nm, 300m^2/g). The advantage is more pronounced when applied at preparative scales. Both phases utilize simple eluents.RU-1 is used under non-aqueous mobile phases, whereas RU·2 is compatible also with aqueous mobile phases.

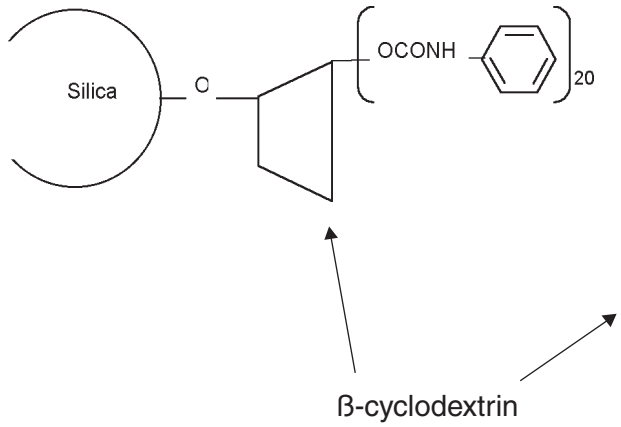


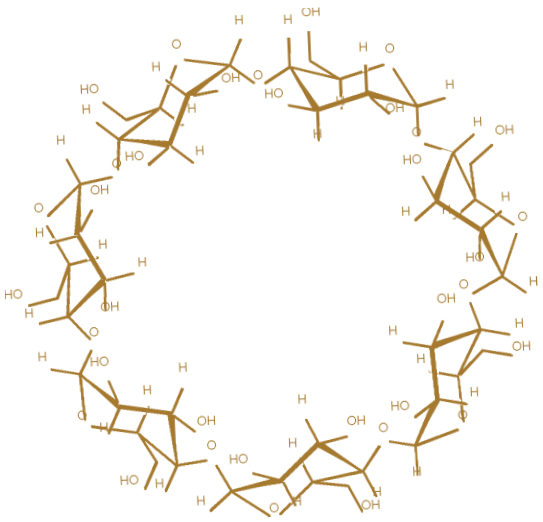


Structure of RU(phen)$_3^{2+}$

CHIRAL CD-Ph

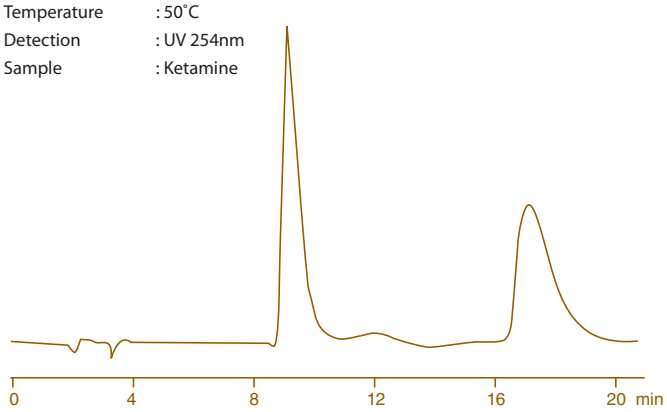
The Chiral CD-Ph utilizes precisely classified high-purity silica as its support, to which phenylcarbamated ß-cyclodectrin is chemically bonded. A large number of theoretical plates is usually achieved. The combined use with the Ceramosphers, covers a wide variety of chiral compounds.





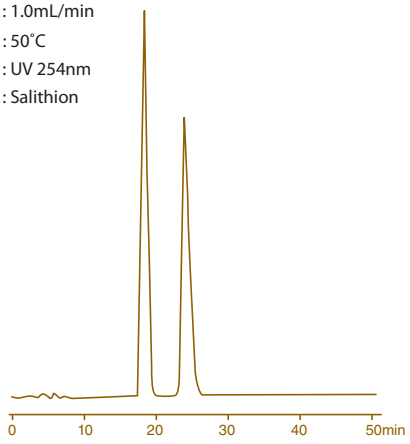
Ketamine

Column : Ceramospher Chiral RU-1
4.6 mm i.d. x 250 mm
Mobile Phase : 1vol% Isopropylamine / CH_3OH
Flow Rate : 1.0mL/min
Temperature : 50˚C
Detection : UV 254nm
Sample : Ketamine



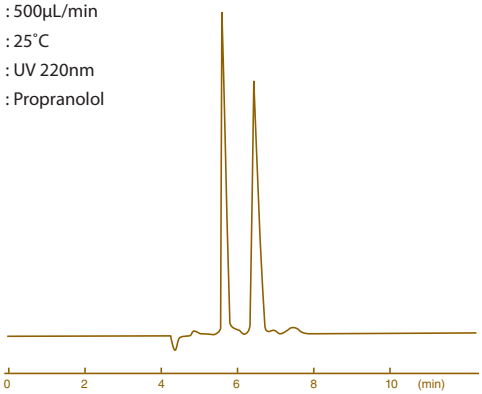
Salithion

Column : Ceramospher Chiral RU-2
4.6 mm i.d. x 250 mm
Mobile Phase : CH_3OH
Flow Rate : 1.0mL/min
Temperature : 50˚C
Detection : UV 254nm
Sample : Salithion



Propranolol

Column : Chiral CD-Ph
4.6 mm i.d. x 250 mm
Mobile Phase : 0.5mol/L $NaClO_4$ / CH_3CN = 20 / 80
Flow Rate : 500µL/min
Temperature : 25˚C
Detection : UV 220nm
Sample : Propranolol



Azelastine

Column : Chiral CD-Ph
4.6 mm i.d.x 250 mm
Mobile Phase : 0.5mol/L $NaClO_4$ / CH_3CN = 50 / 50
Flow Rate : 500µL/min
Temperature : 25˚C
Detection : UV 220nm
Sample : Azelastine