New product Chiral Column for HPLC

A novel chiral stationary phase chemically bonded with chiral crown ether

SUMICHIRAL OA-8000

SUMICHIRAL OA-8000 is a novel chiral stationary phase (CSP) for HPLC, chemically bonded with chiral pseudo 18-crown-6 ether to Silica gel. This CSP has mechanisms for enantiomeric recognition based on host-guest complexations, and is very effective for **separations of chiral amines**.
This CSP is chemically bonded to Silica gel, instead of simply coated, and both the reversed and normal phases can be used as the mobile phases.

Characteristics : SUMICHIRAL OA-8000

enantiomer separations of a wide range of chiral amines !

- ◇ **Can use for enantiomer separations of the compounds having -NH_2, chiral amines, amino acids, amino alcohols.**
- ◇ **Both reverse and normal phase solvents can be used. No restrictions on organic solvent concentrations, and very stable. Especially suited for hydrophobic amines that elute too late on usual columns.**
- ◇ **Sharp peaks and high theoretical plate number are obtained.**

Details : SUMICHIRAL OA-8000

Name	Size
SUMICHIRAL OA-8000	4.0 mmi.d. × 1 cm
	4.6 mmi.d. × 15 cm
	4.6 mmi.d. × 25 cm

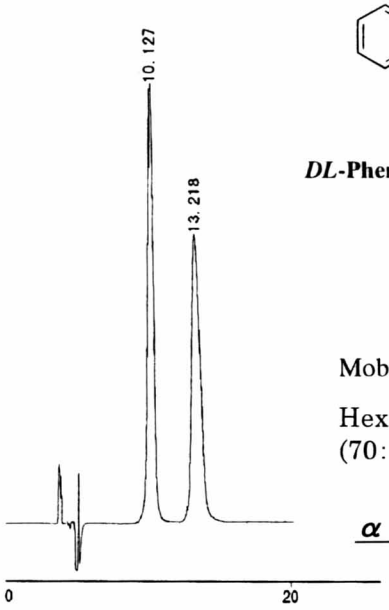
To protect your columns, we recommend to use of a guarde column.

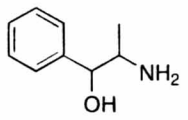
SCAS Sumika Chemical Analysis Service
SUMIKA CHEMICAL ANALYSIS SERVICE, LTD.
1-135,3-CHOME,KASUGADE-NAKA,KONOHANA-KU,OSAKA,554-0022,JAPAN
FAX : 81-6-6466-5255 e-mail : column@scas.co.jp

Analysis : SUMICHIRAL OA-8000

Enantiomer separations under Normal phase conditions.

Separation of ***DL***-Phenylpropanolamine





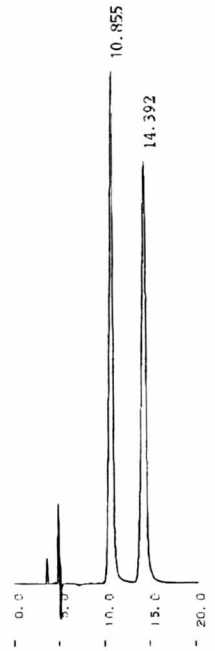
***DL*-Phenylpropanolamine**

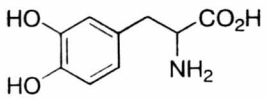
Mobile Phase :

Hex / EtOH / TFA
(70 : 30 : 0.5)

α = 1.57

Separation of ***DL***-DOPA





***DL*-DOPA**
3-(3,4-dihydroxyphenyl)
-*DL*-alanine

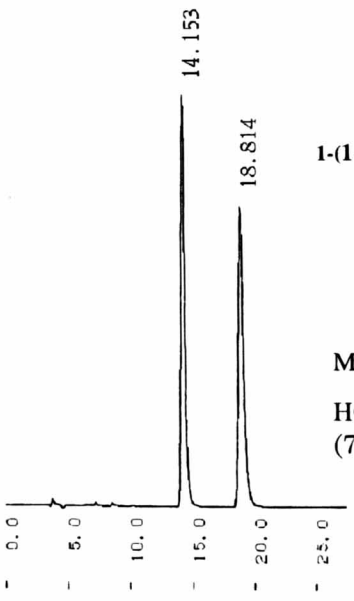
Mobile Phase :

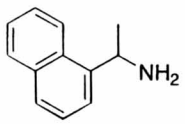
Hex / EtOH / TFA
(65 : 35 : 0.5)

α = 1.58

Enantiomer separations under Reversed phase conditions.

Separation of 1-(1-Naphthyl)-ethylamine





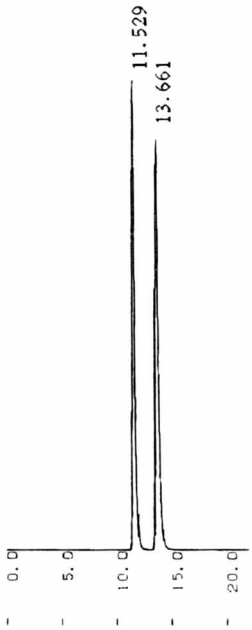
1-(1-Naphthyl)-ethylamine

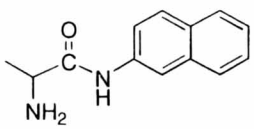
Mobile Phase :

$HClO_4$(pH=2) / CH_3CN
(70 : 30)

α = 1.45

Separation of ***DL***-Alanine-β-naphthylamide





Alanine-β-naphthylamide

Mobile Phase :

$HClO_4$(pH=2) / CH_3CN
(75 : 25)

α = 1.31

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