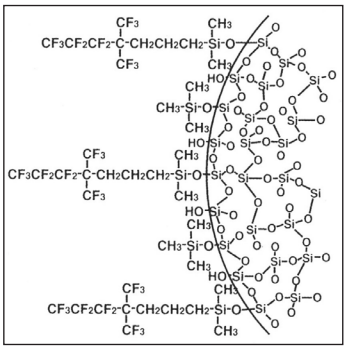
Wakopak® Fluofix, Fluofix-II (Fluorocarbon Chains bonded Highly Purified Spherical Silica-Gel)

Fluofix-II 120E, Fluofix 120E, Fluofix 120N

Wakopak® Fluofix® is a reversed-phase HPLC column packed with highly purified spherical 5μm silica-gel (SiO_2 > 99.99%), to which fiuorocarbon chains are bonded.
Fluofix®-II 120E can provide the best separation for fluorine compounds, isomers in particular. The end-capping efficiency of Fluofix®-II 120E is remarkably improved and its non-specific adsorption is minimized compared with Fluofix 120E. Because of its high retention capacity, Fluofix®-II 120E has higher selectivity and versatility.
The separation mode of this column is basically reversed phase like hydrocarbon modified silica-gel column such ODS, C8, etc., its retention capacity is comparable as C4. Because of its strong hydrophobic/lipophobic as well as its characteristic fluorinated phases, this column specifically shows highly retaining and separating capabilities depending on the characteristics the specimens.

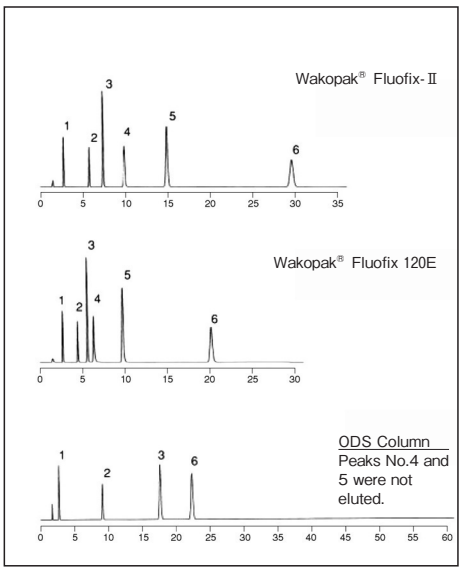


Schematic Surface Model of Wakopak® Fluofix

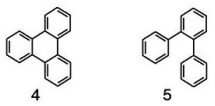
Features

1. Improvement in separation capability.
2. High recognition capability of halogen compounds such as fluorides.
3. Basic compounds are also applicable.
4. Recognition of specific compounds by adamant branched fluorocarbon chain.
5. High durability by chemically stable fluorocarbon.

Recognition of Planar Structures & Fluorinated Compounds

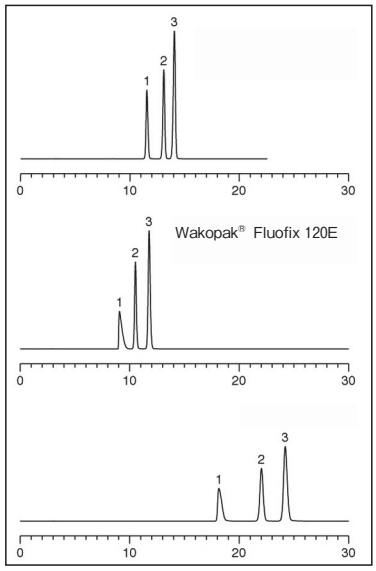


〈Sample〉
1. Uracil
2. Methyl Benzoate
3. Toluene
4. Triphenylene
5. o-Terphenyl
6. Hexafluorobenzene in CH_3OH

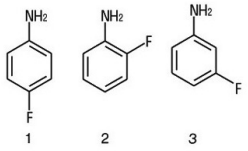


Column size : 4.6mm×250mm
Eluent : CH_3OH/H_2O=60/40
Flow Rate : 1.0ml/min at 40℃
Detection : UV 254nm
Injection : 5μl

Separation of Fluoroanilines



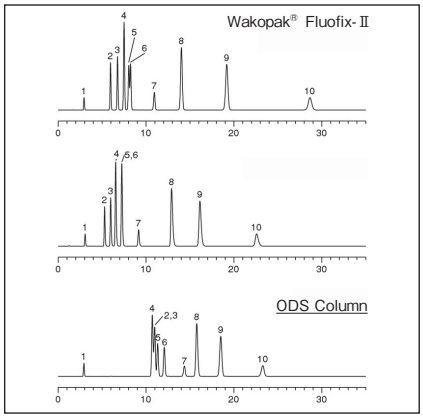
〈Sample〉
1. p-Fluoroaniline
2. o-Fluoroaniline
3. m-Fluoroaniline in 30% MeOH



Column size : 4.6mm×250mm
Eluent : CH_3OH/20mmol/L TBABr=20/80
Flow Rate : 1.0ml/min at 40℃
Detection : UV 254nm
Injection : 10μl

TBABr : Tetrabutylammonium bromide

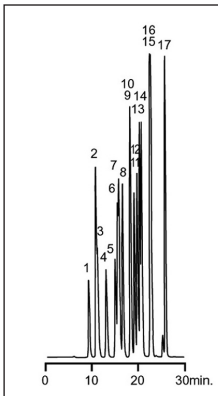
Separation of Fluorobenzenes



〈Sample〉
1. Uracil
2. Benzene
3. Fluorobenzene
4. p-Difluorobenzene
5. o-Difluorobenzene
6. m-Difluorobenzene
7. 1,3,5-Trifluorobenzene
8. 1,2,3,4-Tetrafluorobenzene
9. Pentafluorobenzene
10. Hexafluorobenzene in CH_3OH

Column size : 4.6mm×250mm
Eluent : CH_3OH/H_2O=60/40
Flow Rate : 1.0ml/min at 40℃
Detection : UV 254nm
Injection : 10μl

Separation of Phenols



1. 2-chlorophenol
2. 4-chlorophenol
3. 3-chlorophenol
4. 2,6-dichlorophenol
5. 2,3-dichlorophenol
6. 2,5-dichlorophenol
7. 2,4-dichlorophenol
8. 3,4-dichlorophenol
9. 3,5-dichlorophenol
10. 2,3,6-trichlorophenol
11. 2,4,6-trichlorophenol
12. 2,4,5-trichlorophenol
13. 2,3,4-trichlorophenol
14. 2,3,5-trichlorophenol
15. 2,3,4,6-tetrachlorophenol
16. 2,3,5,6-tetrachlorophenol
17. pentachlorophenol

Column :
Wakopak® Fluofix 120N
(4.6mm×150mm)

Eluent :
(A) CH_3CN
(B) 0.1% Phosphoric acid
(A) 25 to 80v/v% for 50min.

Flow Rate : 1mL / min.

Temperature : 40℃

Detection : UV (230nm)

Description	Purpose	Column Size	Joint Type	Wako Cat. No. (Pkg. Size)
Wakopak® Fluofix-Ⅱ 120E	for ordinary analysis	4.6 mm × 150 mm	W	— (1 unit)
		4.6 mm × 250 mm	W	— (1 unit)
Wakopak® Fluofix 120E	for ordinary analysis	4.6 mm × 150 mm	W	231-61993 (1 unit)
		4.6 mm × 250 mm	W	238-62003 (1 unit)
Wakopak® Fluofix 120N	for acidic compounds	4.6 mm × 150 mm	W	235-61893 (1 unit)
		4.6 mm × 250 mm	W	238-61903 (1 unit)