

ZIC HILTC亲水作用色谱柱

- 直接分离极性和亲水性化合物
- 两性离子基因通过共价键合在多孔硅胶上
- 超长的耐受性使得样品分离的成本很低

什么是亲水作用色谱

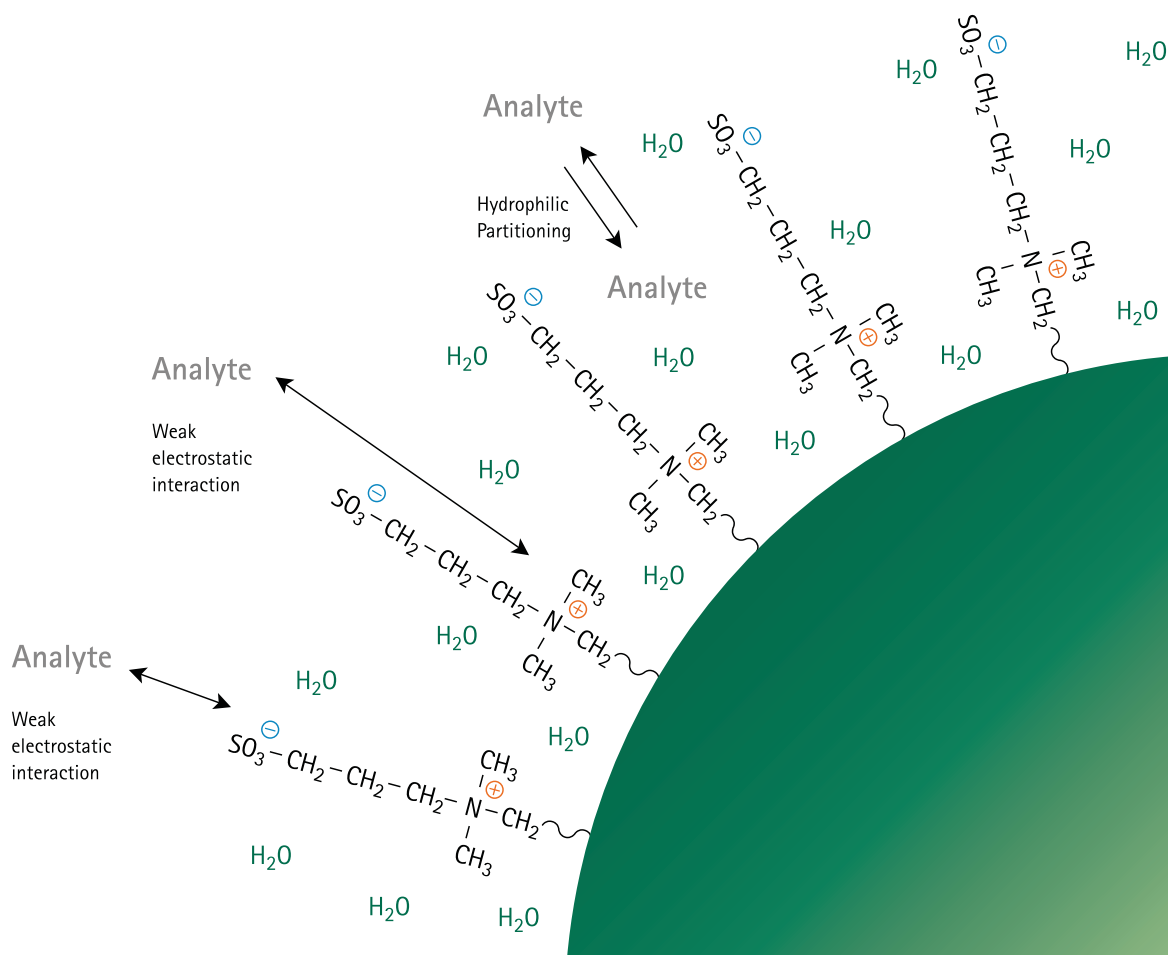
亲水作用色谱是一种直接分离极性和亲水性化合物的色谱技术，为了便于记忆。我们可以把它看作为是一种用反相色谱溶剂作流动机动的正相色谱。

因此HILIC是：

- 亲水性的固定相
- 以水、有机溶剂和缓冲盐做为流动相洗脱剂

常见的HILIC方法采用50~95%有机溶剂和一定比例的水，并且含有高浓度的缓冲盐。如乙腈/水/醋酸胺。

在HILIC方法中，洗脱顺序和反相色谱正好相反，即极性越大，保留时间越长。





Merck液相色谱柱

应用

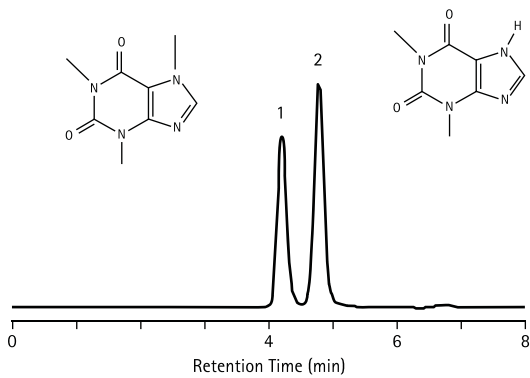


Fig. 6 Isocratic separation of Caffeine and Theophylline on a ZIC®-HILIC PEEK column 150x2.1 mm, 3.5 μ m, 200 Å, (Ord. No. 1.50448.0001).
Eluent (v/v): 90% Acetonitrile and 10% Ammonium Acetate 100 mM; pH 4.50 (total ionic strength 10 mM). Flow-rate: 0.1 mL/min Injection: 5 μ L (25 μ g/mL) of each compound in mobile phase. Detection: UV at 254 nm.

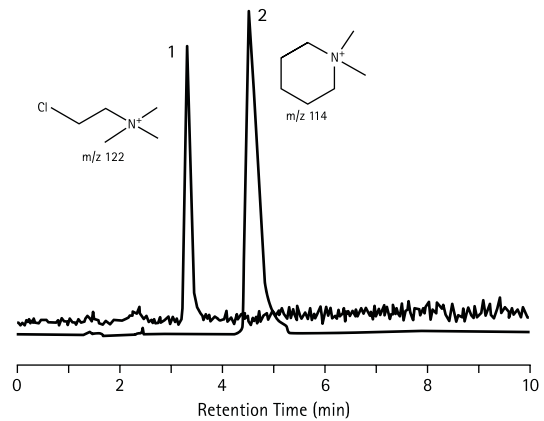


Fig. 7 Isocratic separation of Chlormequat and Mepiquat on a ZIC®-HILIC PEEK column 100x2.1 mm, 3.5 μ m (Ord. No. 1.50447.0001).
Eluent (v/v): 80% Acetonitrile and 20% Ammonium Acetate 25 mM, Flow-rate: 0.2 mL/min, Injection: 20 μ L in mobile phase. Detection: Electrospray-MS in positive mode (Esi+), Single ion monitoring (SIM) at m/z 114 and 122.
By courtesy of: Dr.-Ing. Ludmila Havlik, Chemisches Labor Dr. Wirts + Partner, Hannover, Germany, www.wirts.de

ZIC-pHILIC

- 聚合物基质
- PH 2~10

应用

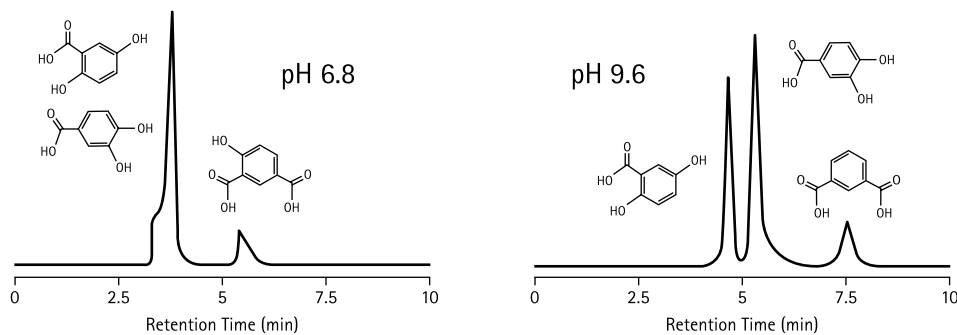


Fig. 9 Separation of gentisic acid, protocatechuic acid, and isophthalic acid on a ZIC®-pHILIC column.
Eluent: 75:25 Acetonitrile/aqueous buffer pumped at 0.5 mL/min. Buffer salt: ammonium acetate (17 mM, pH 6.8) or ammonium carbonate (17 mM, pH 9.6).

订货信息

分析柱

描述	粒径	孔径	内径	柱长	订货号
ZIC®-HILIC PEEK Fitting Guard Column (5-pack)	5 µm	200 Å	1 mm	14 mm	1504340001
ZIC®-HILIC Guard Column (1-pack)	5 µm	200 Å	2.1 mm	20 mm	1504350001
ZIC®-HILIC Guard Column incl. column coupler, (3-pack)	5 µm	200 Å	2.1 mm	20 mm	1504360001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	100 Å	2.1 mm	20 mm	1504390001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	100 Å	2.1 mm	50 mm	1504400001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	100 Å	2.1 mm	100 mm	1504410001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	100 Å	2.1 mm	150 mm	1504420001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	100 Å	2.1 mm	250 mm	1504430001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	100 Å	4.6 mm	150 mm	1504440001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	200 Å	2.1 mm	50 mm	1504450001
ZIC®-HILIC, PEEK HPLC Column	3.5 µm	200 Å	4.6 mm	50 mm	1504460001
ZIC®-HILIC, PEEK HPLC Column	3.5 µm	200 Å	2.1 mm	100 mm	1504470001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	200 Å	2.1 mm	150 mm	1504480001
ZIC®-HILIC PEEK HPLC Column	3.5 µm	200 Å	4.6 mm	150 mm	1504490001
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	2.1 mm	50 mm	1504500001
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	4.6 mm	50 mm	1504510001
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	2.1 mm	100 mm	1504520001
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	4.6 mm	100 mm	1504530001
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	2.1 mm	150 mm	1504540001
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	4.6 mm	150 mm	1504550001
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	2.1 mm	250 mm	1504570001
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	4.6 mm	250 mm	1504580001





Merck液相色谱柱

液相毛细管柱

描述	粒径	孔径	内径	柱长	订货号
ZIC®-HILIC Guard Column, (1-pack)	5 µm	200 Å	1 mm	5 mm	1504830001
ZIC®-HILIC Guard Column, (5-pack)	5 µm	200 Å	1 mm	5 mm	1504900001
ZIC®-HILIC Guard Column, (1-pack)	5 µm	200 Å	300 µm	5 mm	1504840001
ZIC®-HILIC Guard Column, (5-pack)	5 µm	200 Å	300 µm	5 mm	1504920001
ZIC®-HILIC Nano-column	5 µm	200 Å	75 µm	150 mm	1504650001
ZIC®-HILIC Nano-column	3.5 µm	200 Å	100 µm	100 mm	1504660001
ZIC®-HILIC Microbore Column	3.5 µm	100 Å	1 mm	150 mm	1504870001
ZIC®-HILIC Capillary Column	3.5 µm	200 Å	300 µm	30 mm	1504890001
ZIC®-HILIC Microbore Column	3.5 µm	200 Å	1 mm	30 mm	1504780001
ZIC®-HILIC Capillary Column	3.5 µm	200 Å	300 µm	150 mm	1504790001
ZIC®-HILIC Microbore Column	3.5 µm	200 Å	1 mm	150 mm	1504800001
ZIC®-HILIC Capillary Column	5 µm	200 Å	300 µm	30 mm	1504910001
ZIC®-HILIC Capillary Column	5 µm	200 Å	300 µm	150 mm	1504810001
ZIC®-HILIC Microbore Column	5 µm	200 Å	1 mm	150 mm	1504820001

半制备柱

描述	粒径	孔径	内径	柱长	订货号
ZIC®-HILIC PEEK HPLC Column	5 µm	200 Å	7.5 mm	150 mm	1504560001
ZIC®-HILIC Stainless Steel Column	5 µm	200 Å	10 mm	50 mm	1504950001
ZIC®-HILIC Stainless Steel Column	5 µm	200 Å	10 mm	150 mm	1504930001
ZIC®-HILIC Stainless Steel Column	5 µm	200 Å	10 mm	250 mm	1504940001
ZIC®-HILIC Stainless Steel Column	5 µm	200 Å	20 mm	50 mm	1504960001
ZIC®-HILIC Stainless Steel Column	5 µm	200 Å	20 mm	150 mm	1504970001

ZIC®-pHILIC

描述	粒径	孔径	内径	柱长	订货号
ZIC®-pHILIC Guard Column, (1-pack)	5 µm		2.1 mm	20 mm	1504370001
ZIC®-pHILIC Guard Column, (3-pack), incl. column coupler	5 µm		2.1 mm	20 mm	1504380001
ZIC®-pHILIC PEEK HPLC Column	5 µm		2.1 mm	50 mm	1504590001
ZIC®-pHILIC PEEK HPLC Column	5 µm		2.1 mm	100 mm	1504620001
ZIC®-pHILIC PEEK HPLC Column	5 µm		2.1 mm	150 mm	1504600001
ZIC®-pHILIC PEEK HPLC Column	5 µm		4.6 mm	50 mm	1504630001
ZIC®-pHILIC PEEK HPLC Column	5 µm		4.6 mm	100 mm	1504640001
ZIC®-pHILIC PEEK HPLC Column	5 µm		4.6 mm	150 mm	1504610001