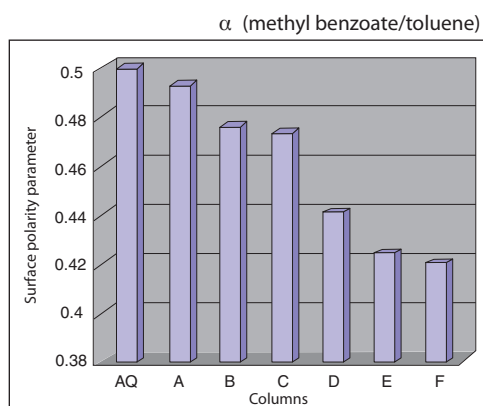


# CAPCELL PAK C<sub>18</sub> AQ

CAPCELL PAK C<sub>18</sub> AQ was intended for separating highly polar compounds under water (buffer) rich mobile phase. Its C<sub>18</sub> group density was designed to be small, and shows a relatively small carbon content. The surface excess of organic solvent molecules on the stationary phase is adequately limited, and a stable retention of analytes can be obtained even under an aqueous mobile phase.

Surface polarity parameter of typical reversed-phase C<sub>18</sub> columns



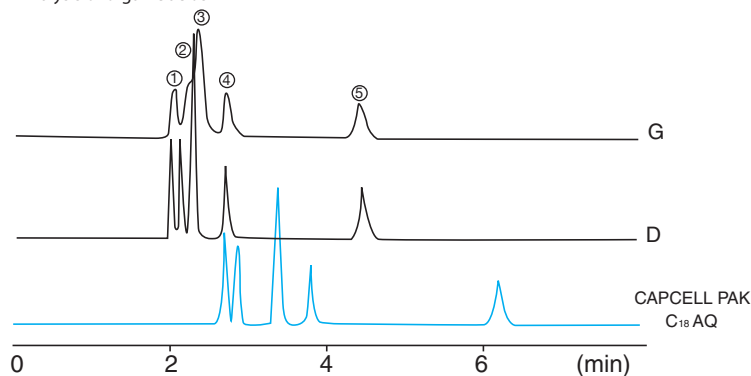
characteristics

Column	Specific surface area of silica support (m <sup>2</sup> /g)	Carbon content (C%)
CAPCELL PAK C <sub>18</sub> AQ	300	11
CAPCELL PAK C <sub>18</sub> MG	260	15
CAPCELL PAK C <sub>18</sub> UG	300	15

## Excellent retention of polar compounds

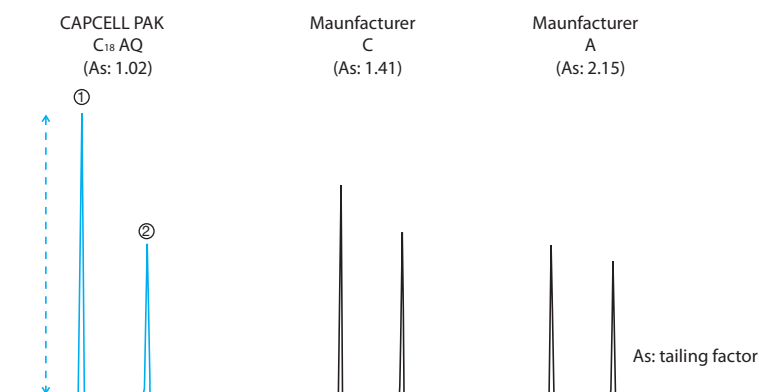
Column : 4.6mm i.d. x 150 mm  
 Mobile Phase : 0.1vol% H<sub>3</sub>PO<sub>4</sub>  
 CH<sub>3</sub>CN / H<sub>2</sub>O = 2/ 98  
 Flow Rate : 1.0 mL/min  
 Temperature : 40°C  
 Detection : UV 210 nm  
 Samples : 1) Lactic acid 2) Acetic acid  
 3) Citric acid 4) Succinic acid  
 5) Propionic acid

Analysis of organic acids



## The peak shape of basic compounds represented by pyridine is almost symmetrical without tailing.

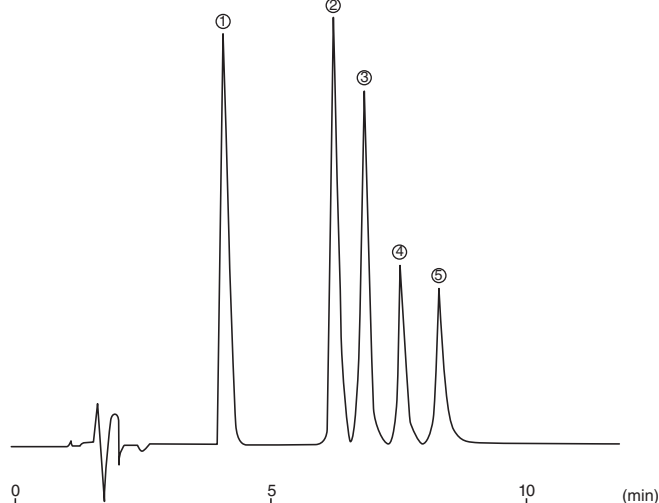
Column : 4.6mm i.d. x 150 mm  
 Mobile Phase : CH<sub>3</sub>CN / H<sub>2</sub>O = 30 / 70  
 Flow Rate : 1.0 mL/min  
 Temperature : 40°C  
 Detection : UV 254 nm  
 Samples : 1) Pyridine  
 2) Phenol





## Good peak shape of basic compounds under slightly acidic conditions.

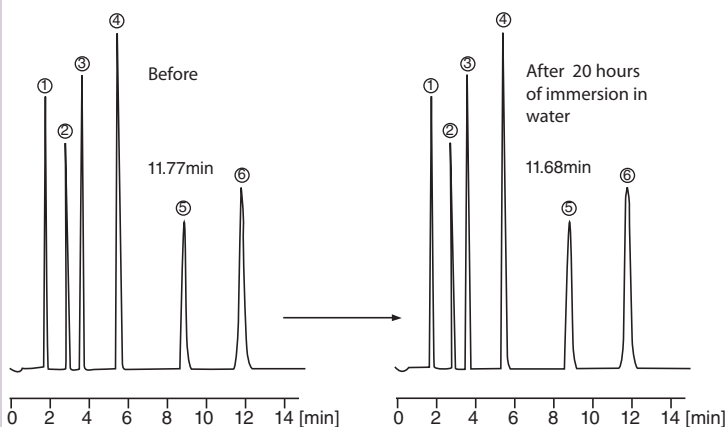
Analysis of tricyclic antidepressants



Column : 4.6mm i.d. x 150 mm  
 Mobile phase : 0.1vol% HCOOH,  
 CH<sub>3</sub>CN /H<sub>2</sub>O = 25 / 75  
 Flow Rate : 1.0 mL/min  
 Temperature : 40°C  
 Detection : UV 210 nm  
 Samples : 1) Doxepine 4) Nortriptyline  
 2) Desipramine 5) Amitriptyline  
 3) Imipramine

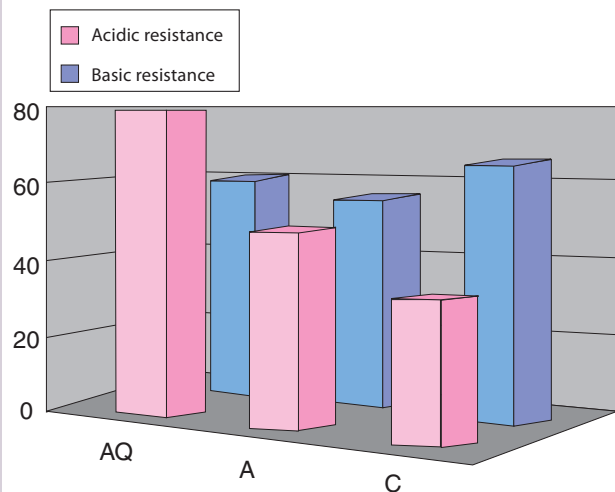
## Compatible with a mobile phase of 100% water

Analysis of nucleic acid base



Column : 4.6 mm i.d. x 150 mm  
 Mobile phase : 20 mmol/L KH<sub>2</sub>PO<sub>4</sub>,  
 20 mmol/L K<sub>2</sub>HPO<sub>4</sub>  
 Flow rate : 1.0 mL/min  
 Temperature : 40°C  
 Detection : UV 254 nm  
 Samples : 1) Sodium nitrite 4) Guanine  
 2) Cytosine 5) Thymine  
 3) Uracil 6) Adenine

## Superior resistance to acidic and Basic conditions



## Excellent durability due to low column pressure

