

## Instructions for TSKgel ABA-5PW

### Support

ABA-5PW was prepared by introducing p-aminobenzamidine into G5000PW.

Particle size : 10  $\mu\text{m}$

Pore size : ca. 1000  $\text{\AA}$

### Column

Size : 75 x 7.5 mm I.D.

Solvent : distilled water

### pH range

2 - 9

### Salt concentration range

less than 3 M

### Flow rate range

less than 1.2 ml/min

Flow rates of 0.5 - 1.0 ml/min are recommended in general.

### Column washing

Buffers of pH near neutral containing urea in high concentrations or non-ionic detergents may be effective to wash or regenerate columns.

### Guard column

The use of guard column (10 x 6 mm I.D.) is recommended for a long service life of analytical columns.

The change of both inlet side filter and support once a week is recommended for every day use.

The guard column can be packed by pouring the concentrated slurry of ABA-5PW guard gel into it and then sucking with aspirator.

The old filter can be re-used after washing by exposing it to ultrasonic in 0.1 - 0.2 N NaOH for about 30 min.

### ABA-5PW guard gel

Support prepared by introducing p-aminobenzamidine into G5000PW of 20 - 30  $\mu\text{m}$  in particle diameter for use in guard column

### Storage

When ABA-5PW columns are stored for more than several days, replace the solvent in columns with distilled water.

Store the columns at around 4°C.

### Test for theoretical plate number

Following conditions are recommended to test columns for their theoretical plate numbers and As (asymmetry factor).

Eluent : distilled water

Flow rate : 1 ml/min

Sample : acetone (0.5 %, 20 µl)

ABA-5PW columns have theoretical plate numbers more than 1,300 plates per column and As of 1.0 - 2.0 at a time of delivery.