Reversed Phase Separation Column
EICOMPAK SC-5ODS

AD02-0216

EICOMPAK SC-5ODS Column is the reversed phase separation column. The packed material is octadecylsilane bonded porous silica gel with 5 µ diameter. SC-5ODS is suitable for the separation of monoamines and other biological samples.

Column Size	Standard Flow Volume of Mobile Phase
2.1 mm ø x 150 mm	0.23 ml/min
3.0 mm ø x 150 mm	2.5 ml/min

Instruction

1. Each new SC-5ODS column has been extensively conditioned before shipping to render it better suited for use with electrochemical detectors and ships filled with 100% methanol. (If you ordered a column pre-conditioned with an analytical mobile phase, the type of the mobile phase is shown on the enclosed memo.)
2. If the SC-5ODS has been shipped or stored with methanol, first run methanol through the column for ten minutes. After that, wash the column with a 20% methanol : water solution for 1 hour before switching to analytical mobile phase.
3. A polar solvent such as water or methanol with a buffer is typically used as mobile phase for SC-5ODS.
4. The suggested pH range of mobile phase is from 2.0-7.5. DO NOT use strong acid or alkaline solutions.
5. When switching from a mobile phase with a high organic solvent concentration to a buffered (salt-containing) aqueous mobile phase, and vice versa, please wash the column with 20% methanol in water for an hour to avoid precipitation of the salts. Pay special attention when the salt concentration is more than 0.1 M.
6. The silica gel of the SC-5ODS column limits the maximum pressure to 10 MPa.
7. Although no definitive temperature range has been established for this column, it is best to avoid using in especially high or low temperatures.

Cleaning

To clean the column, perform the following steps:

1. 20% Methanol : water at the normal flow rate for 60 min
2. 100% Methanol : water at the normal flow rate for 60 min
3. 20% Methanol : water at the normal flow rate for 60 min

* During the cleaning procedure, never pass the column effluent through the detector cell. Collect the solution directly from the column-end.

Storing

The column may be stored with analytical mobile phase (pH6.0) or a 20% methanol : water solution for 1-2 months. However, when storing longer, please store with 100% methanol. Before washing the column with 100% methanol, first flush with 20% methanol - distilled water for 1 hour. After storage with 100% methanol, flush with 20% methanol : water for 1 hour before returning to mobile phase.

Conditioning

EICOMPAK has been pre-conditioned before shipping, but if you find a higher than expected background current (BGC) from the electrochemical detector, you may need to condition the column as follows.

1. Wash with 100% distilled water.
2. Then, wash with phosphate buffer, pH3.5, containing 10% Methanol and 100 mg/L 2NA (EDTA•2Na)
3. Return to mobile phase. If the mobile phase organic concentration is greater than 20% methanol, please first wash with a 20% methanol : water solution before returning to the mobile phase.
4. Reconnect the column to the ECD, and check to see if the BGC is lower.

If the column has been stored for an extended period of time in a methanol solution, the column will need to be washed with methanol for ten minutes before performing the conditioning procedure.

When analyzing biological samples, the use of a precolumn is highly recommended. You can order pre-packed (PREPAKSET) or self packed precolumns from EICOM.

USA
7098 Miratech Drive, Ste 100 ,San Diego, CA 92121
Toll Free (888) 680-7775 Fax (858) 560-8040

Europe
Ground Floor, Hilton House Ardee Rd, Rathimines, Dublin 6 , Ireland
Phone +353 1 902 2700 Fax +353 1 443 0784