Cellufine Phenyl



Fig1.Pressure-flow rate curve for Cellufine Phenyl. Column : I.D.9cm-40cm bed height / Mobile phase [water]



Fig2.Stability test in alkali and acid at 4°C/20°C.



Cellufine Phenyl can be used at high flow rates.

The flow/pressure curve for a Cellufine Phenyl column confirms operating flow rates above 200 cm/h can be obtained. The compressibility of Cellufine Phenyl is approximately 24%.

Cellufine Phenyl is chemically stable

When stored in 0.5M NaOH for 180 days at 20° C, the adsorption capacity of BSA remained stable. When stored 0.2M HCl for 180 days at 20° C, adsorption of BSA only decreased slightly.

The graph displays Capacity relative to the Adsorption Capacity before storage (as 100%).

Cellufine Phenyl performance remains constant over at least 100 operating cycles.

Fig3. Stability after repeated cleaning (CIP) with NaOH. Column : I.D.(4.4cm)

Flow :1.5CV/h [residence time 40min] at 20°C Equilibration buffer: 0.01M sodium phosphate , $pH7.0 + 1M (NH_4)_2SO_4$

Washing solution: 0.2M NaOH or 0.5M NaOH Cycle: 1) Equilibration buffer 3CV; 2)Washing solution 3CV. The Cellufine Phenyl was sampled at 50 cycles and 100 cycles, and the adsorption capacity was determined.



Cellufine Phenyl can be repeatedly autoclaved.

Autoclaving is recommended in a neutral, low salt buffer, or water.

Fig4. Change of adsorption capacity for Cellufine Phenyl during autoclaving cycle. Conditions: 20 minutes at 121°C

Cellufine Phenyl conforms to USP28, Plastic Class V.

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