

Celluline Phenyl

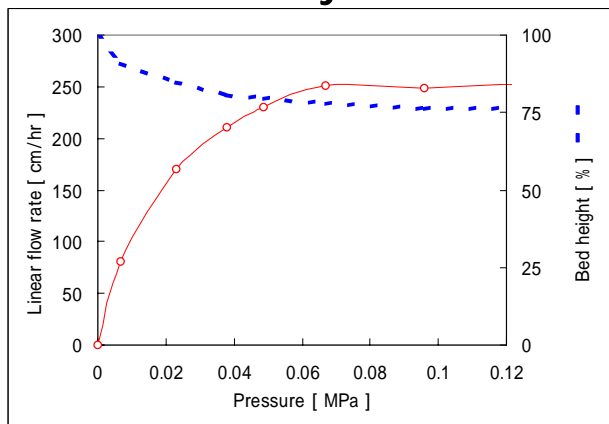


Fig1. Pressure-flow rate curve for Celluline Phenyl.
Column : I.D.9cm-40cm bed height / Mobile phase [water]

Celluline Phenyl can be used at high flow rates.

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

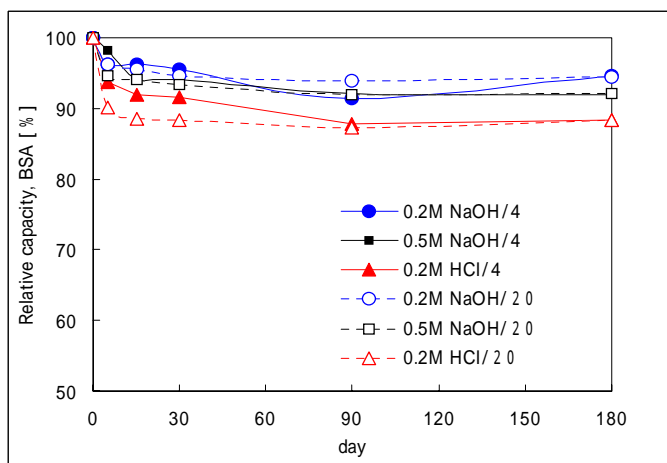
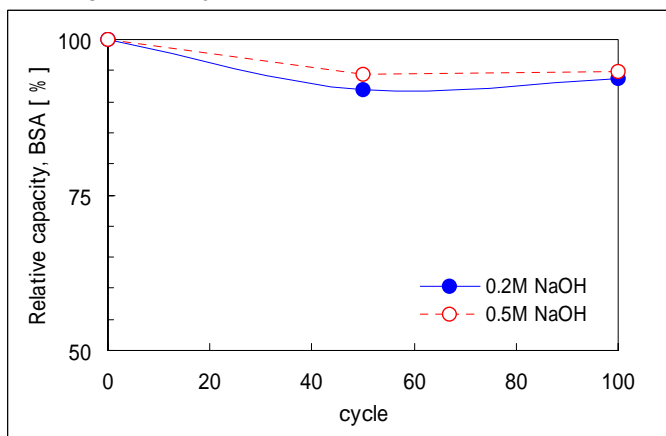


Fig2. Stability test in alkali and acid at 4 / 20 .

Celluline Phenyl is chemically stable

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

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



Celluline 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
Equilibration buffer: 0.01M sodium phosphate ,
pH7.0 + 1M (NH₄)₂SO₄
Washing solution: 0.2M NaOH or 0.5M NaOH

Cycle: 1) Equilibration buffer 3CV; 2)Washing solution 3CV.
The Celluline Phenyl was sampled at 50 cycles and 100 cycles, and the adsorption capacity was determined.

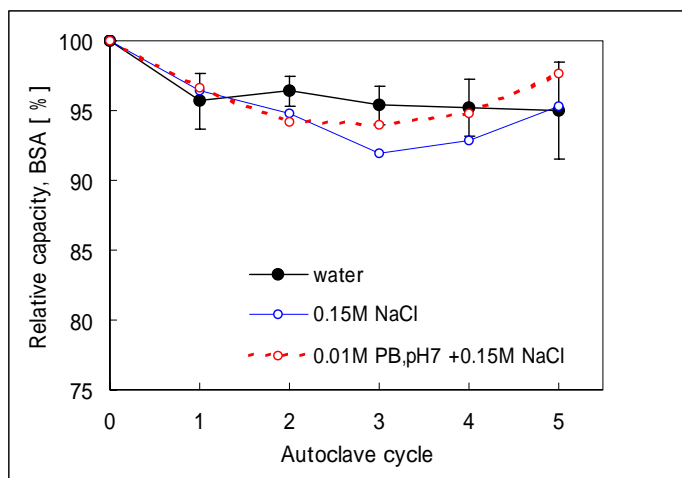


Fig4. Change of adsorption capacity for Celluline Phenyl during autoclaving cycle.

Conditions: 20 minutes at 121

Celluline Phenyl can be repeatedly autoclaved.

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

Celluline Phenyl conforms to USP28, Plastic Class V.