

## Filtering of Phage solution with Phactory purifier

### Aim of the experiment

Cleaning of Phage solutions of impurities.

### Material

- 10 mM MgSO<sub>4</sub>
- Phage solution
- 3D printed filter device "Phactory Purifier"
- Fitting Elveflow
- BioRad Micro biospin
- Hydroxapatite
- Syringe (20ml & 1-3ml Braun Omnifix)
- Three-way cock
- Syringe pump
- Teflon tubing 0.5 mm inner diameter
- Syringe needle 20G

### Procedure

1. Insert the spin column in the bottom part of the 3D printed device
2. Fill the spin column with 500mg Hydroxyapatite and fit the upper part of the device.
3. Fit in the Elveflow fitting with Teflon tubing
4. Let the columns equilibrate with MgSO<sub>4</sub> with flow of 500  $\mu$ l/min
5. Dispense the phage stock solution into the three-way stopcock
6. Collect 30 fractions of 1 ml
7. Test fractions with a Spot on test and Plaque Assay