## Tips for acid elution of peptides

(Modification of protocol described in Raghavan et al. and references therein).

- 1) Don't use pipetman yellow tips -- use white tips with filters that are used for sterile tissue culture or PCR (yellow tips have contaminant in them).
- 2) Use Centricons with a MW cutoff of 3000, not 10000 (the Centricon 3000's are made from a better polymer).
- 3) Centricons can fail. Cenck Amicon's limit for g-force on centricons and do spins a bit below maximum speed.

## **Protocol**

- 1) Wash centricon first three times with 2 ml of 25 mM MES, Ph 6.0 (all buffers and water should be HPLC grade, e.g. from Baker).
- 2) Wash centricon twice with 2 ml washes of 10% acetic acid (highest grade).
- 3) Wash again with MES buffer at least once to neutralize.
- 4) Load protein sample in  $\sim 100 \, \mu l$ .
- 5) Add 1 ml 10% acetic acid. Invert centricon into prewarmed heating block (70°C) for 15 minutes. Let it reflux.
- 6) Invert carefully (pipet material from cap back into centricon).
- 7) Spin to collect eluted peptides.
- 8) Now have  $\sim$ 2 ml peptide material in acid. Speed vac to reduce volume to 50  $\mu$ l. Either analyse by pool sequencing or try to separate peptides by HPLC. Don't freeze eluted peptide material.