

## Flow Chart: mAb Downstream Process

Bioreactor or Spinner Flask: End of Run – conditioned medium



Clarify by centrifugation, 0.2  $\mu\text{m}$  filtration



Supplementation with protease inhibitors (aprotinin, leupeptin, PMSF)



Concentration with TFF (30 kDa); final volume ~ 40 ml + 10 ml rinse



Protein A Affinity Chromatography on AKTA pure system.



(Optional additional purification, polishing chromatography steps, e.g. IEX, SEC).



Analysis of fractions by SDS-PAGE, Western blot.



Further QC Biochemistry to determine concentration by ELISA and presence of aggregates by HPLC SEC