NISTCHO Downstream Process Flow Chart

Bioreactor or Spinner Flask: End of Run culture

Clarify by centrifugation, 0.2 µm filtration

Add protease inhibitors (100x protease inhibitor cocktail + 10% tween 20)

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

Optional Buffer exchange by resuspension/concentration with TFF

Protein A Affinity Chromatography on AKTA pure system.

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

Analysis of fractions by SDS-PAGE

Further QC Biochem to establish titer (HPLC Prot.A), ELISA, and test for aggregates by HPLC