Protein Purification Workflow – Centrifugation Highlights

Centrifuge to harvest cells containing protein
- Avanti JXN-26
- 200 xg 15min
- Harvest cells producing protein from media

Cell lysis and treatment

Centrifuge to clear cell debris
- 3000 xg 15min
- keep supernatant
- Separate insoluble (junk) from soluble protein

Protein Isolation
- Hermatic sealing minimize air-liquid interface
- Ultracentrifugation is efficient as it can most effectively separate different protein products
- Analytical Ultracentrifugation can uniquely provide biophysical parameter and characterize protein-based products

Density gradients to separate native protein, protein-ligand, oligomers or aggregates
- Optima XPN 100
- Time
- Speed
- Gradient

Protein characterization
- Biophysical Experiments with AUC

Optima AUC

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CEN1-2316CT02.17