



Protein Purification Workflow – Centrifugation Highlights

70 YEARS OF CENTRIFUGATION



Avanti JXN-26

Centrifuge to harvest cells containing protein

- 200 xg 15min

Harvest cells producing protein from media

Cell lysis and treatment

Speed and Volume

Centrifuge to clear cell debris

- 3000 xg 15min
- keep supernatant

Separate insoluble (junk) from soluble protein

Protein Isolation



Optima XPN 100

Density gradients to separate native protein, protein-ligand, oligomers or aggregates

- Time
- Speed
- Gradient



Hermetic sealing minimize air-liquid interface

Ultracentrifugation is efficient as it can most effectively separate different protein products



Optima AUC

Protein characterization

- Biophysical Experiments with AUC

Analytical Ultracentrifugation can uniquely provide biophysical parameter and characterize protein-based products

