

Virus Purification Workflow — **Centrifugation Highlights**



Centrifuge to harvest cells containing virus



Allegra X-15R

• 200 xg 15min

for downstream

Cell lysis and treatment

Centrifuge to clear cell debris



- 3000 xg 15min
- · keep supernatant

Polyethylene glycol (PEG) precipitation

- 5000 xg 2min
- · keep pellet

Optima XPN 100

Centrifuge to further clarify viral mixture

- 5000 xg 10min
- · keep supernatant

Density gradients to isolate viral Loads

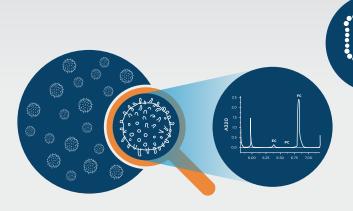
- (active virus)
- 226,000 xg
- ~1.5 hours (step gradient)
- 226,000 xg
- ~20hours (continuous gradient)

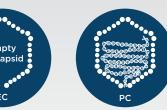
uniquely purify fully loaded virus from

Virus characterization

Optima AUC

• Biophysical Experiments with AUC





Partial Capsid









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