

## Protein Production Workflow – **Centrifugation Highlights**













**Produce** Harvest Isolate Lyse Clear Purify Characterize



## Preparation of production cell line

Thaw, grow, expand



## Preparation of plasmid DNA

- Planning
- · Cloning, transformation
- · Isolate clean and high number of DNA copies



Transformation/ **Transfection** 



**Protein Amplification** 



**Protein Purification** 















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