- Announcements
  - Discuss mid-term feedback
  - FNT heads up methods, 3Q (got ad of one)
  - Day 7: quie; staggered arrivals (~1-1.5 hrs)
  - OH: Ihr. This Mon; next sunt the, like Mon, zhr.
- Pre-lab Lecture
  - **❖** SDS-PAGE
  - Affinity purification recap
  - Today in Lab (Mod 2 Day 6)

## SDS-FAGE preparation

- You will make whole cell extracts with equal cell #s
  - VMax = 15M
    - 15ML + 7.5ML H20
- Gel separates proteins based on size, shape, charge
- Sample preparation
  - SDS: coat proleins W(-) charge
- β-Me: heals substantial higher-order structures

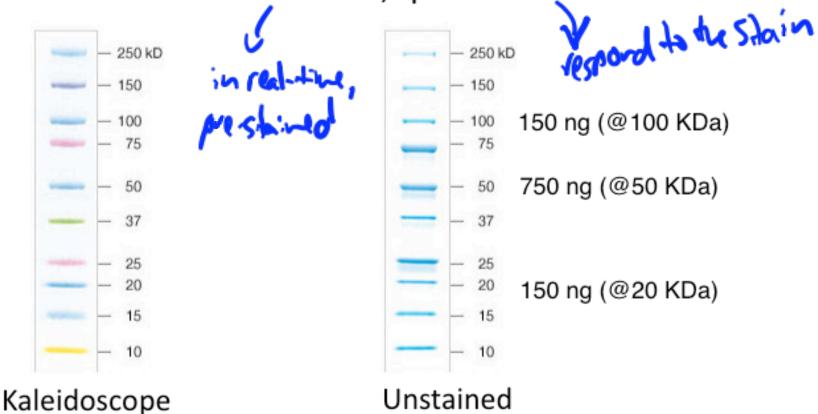
   Boiling: de-asture higher-order structures

   Sample Buffer has SDS, β-Me, plus ofycerol, SPB dye

## SDS-PAGE visualization, analysis

Visualization: Coomassie stain (binds certain AA)

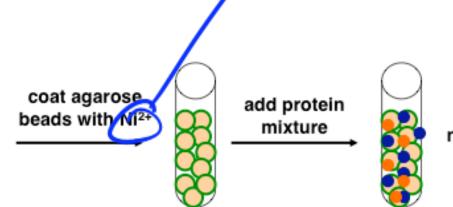
Two ladders: visualization, quantification

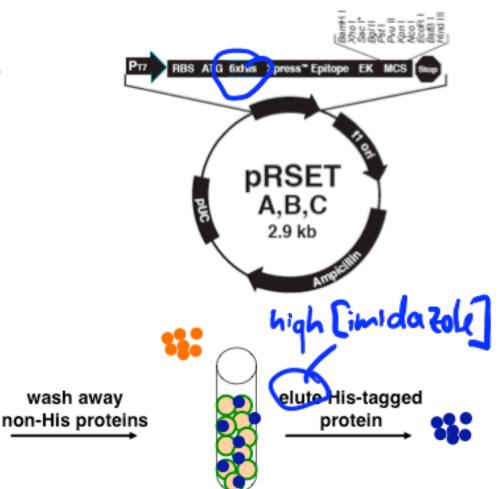


## Affinity purification

· Basis: His lag invector

6x, Sinds to netals





## Today in Lab

- Lyse cell pellets in BPER
  - BSA "carrier," protease inhibitors
  - Add fysis enzymes 44 enzymes
- Run a 25 μL aliquot through SDS-PAGE
  - Two ladders also → 🚮 ५ 🚧
  - Stick with equal volumes if you have < 25</li>
- Purify IPC protein from the rest (long!)
  - Immediately take 10 μL aliquot and measure concentration
  - The rest is stabilized w/BSA, to be titrated against calcium next time

