

00_01 10% APS Recipe

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Goal-Setting

- Recipe for 10% ammonium persulfate used for polyacrylamide gels

Terms / abbreviations

- APS = Ammonium persulfate

Risk areas

- Search for gloves and safety goggles

 Hazard symbols



Required materials and / or information

- Chemicals:
 - APS (solid), Roth
 - Autoclaved MilliQ water, Sartorius arium pro VF
- Materials:
 - 1.5 mL tubes, Eppendorf
 - Falcon Tube 50 mL, Sarstedt

Templates, devices, software

- Analysis balance, Kern ABJ 220-4NM
- Vortexer, Scientific Industries (Vortex Genie 2)

Preliminary work

- None

Operation

1. Weigh 10% (w/v) of APS into e.g. a Falcon Tube (e.g. 1 g APS for 10 mL H₂O)
2. Add some autoclaved MilliQ water and fully dissolve the APS by vortexing
3. Fill with remaining volume of MilliQ water to reach the final desired volume
4. Mix by stirring/shaking/inverting
5. Aliquot 1-1.5 mL into Eppendorf Tubes and store at -20 °C in the iGEM freezer

Disposal

- None

Troubleshooting

- APS should always be stored in fridge
- For long-term storage, keep it in -20 °C freezer

Follow-up work

- [02_01 PAA Gel Preparation \(Native\)](#)
- [02_01 PAA Gel Preparation \(Denaturing\)](#)