06_01_Preparation-of-an-ampicillin-stock

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Goal-Setting

- Preparation of ampicillin stock for LB-Amp Agar

Terms / abbreviations

- Amp = Ampicillin
- ddH_2O = MilliQ water

Risk areas

Hazard symbols

Required materials and / or information

- Chemicals:
  - Ampicillin sodium salt, AppliChem
  - Autoclaved MilliQ water, Sartorius arium pro VF
- Materials:
  - 0.22 µM filter, Pall
  - Falcon Tube 50 mL, Sarstedt
  - Small beaker
  - Syringe 50 mL, B. Braun

Templates, devices, software

- Analysis balance, Kern ABJ 220-4NM

Preliminary work

- Calculate the needed masses for specific volumina

Operation

- For 10 mL of 50 g/L solution:
  - Put 0.521 g Ampicillin sodium salt (contains 0.5 g Ampicillin) in the beaker
  - Fill up to 10 mL with ddH_2O
- Sterile filter with a 0.22 µM filter into a Falcon Tube
- Store at 2–8 °C for up to 3 weeks. For long-term storage (4–6 months), stock solutions should be stored at –20 °C. At 37 °C in culture, ampicillin is stable for up to 3 days.

Disposal

- Dispose the solid agar in S1 waste

Troubleshooting

- None

Follow-up work

- 06_03_Casting-agar-plates