

00_06 Preparation of an Ampicillin Stock

MITTWOCH, 11.8.2021

Goal-Setting

- Preparation of an ampicillin stock for LB-Amp Agar

Terms / abbreviations

- Amp = Ampicillin
- ddH₂O = MilliQ water

Risk areas



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 ddH₂O
- 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

- [📄 05_01 Casting Agar Plates](#)