10 mg/ml Ampicillin Anhydrous Stock Solution

Instructions
1. Weigh 0.10 g of Ampicillin Anhydrous ([Ampicillin Anhydrous, GoldBio Catalog # A-302](https://www.goldbio.com/products/ampicillin-anhydrous)) [CAS 69-53-4, mw. = 349.40 g/mol]).

2. Add 10 ml of sterile H$_2$O. Dissolve completely

   **Alternatively:** Ampicillin Anhydrous is more freely soluble in dilute acidic or basic solution (>50 mg/ml), but can degrade quickly so prepare solutions fresh in 1M ammonium hydroxide or 1M HCl for a higher concentration stock solution.

3. Prewet a 0.22 µm syringe filter by drawing through 5-10 ml of sterile H$_2$O and discard water.

4. Sterilize Ampicillin stock through the prepared 0.22 µm syringe filter.

5. Stock may be stored in small aliquots at -20°C for 6 months or -70°C for up to 1 year.¹

References