

Stock Solution



TD-S Revision 2.0

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1 mg/ml Amoxicillin Trihydrate Stock Solution

Instructions

1. Weigh 0.01 g of Amoxicillin Trihydrate ([Amoxicillin Trihydrate, GoldBio Catalog # A-550](#) [CAS 61336-70-7, mw. = 419.45 g/mol]).
2. Add 10 ml of sterile H₂O. Dissolve completely

Alternatively: Amoxicillin Trihydrate is freely soluble in dilute acidic or basic solution (>50 mg/ml), but can degrade quickly so prepare 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 H₂O and discard water.
4. Sterilize Amoxicillin stock through the prepared 0.22 µm syringe filter.
5. Stock may be stored in small aliquots at -70°C for up to 3 months.

References

Okerman, Lieve, Johan Van Hende, and Lieven De Zutter. Stability of frozen stock solutions of beta-lactam antibiotics, cephalosporins, tetracyclines and quinolones used in antibiotic residue screening and antibiotic susceptibility testing. *Analytica chimica acta* 586.1 (2007): 284-288.