

Mixing Instructions for Penicillin, Ampicillin and Amoxicillin Oral Challenge

Penicillin

1. Add 3.2ml of normal saline to 5 million units of Penicillin = 1,000,000 U/ml (undiluted)
2. Add 0.5ml of 1,000,000 U/ml solution to 4.5ml of Albumin diluent = 100,000 U/ml (1:10 dilution)
3. Add 0.5 ml of 100,000 U/ml solution to 4.5ml of Albumin diluent = 10,000 U/ml (1:100 dilution)
4. Add 0.5 ml of 10,000 U/ml solution to 4.5ml of Albumin diluent = 1,000 U/ml (1:1000 dilution)
5. Storage/Stability: Penicillin G and penicilloate may be refrigerated for up to 1 week once diluted for skin testing concentrations.¹

Ampicillin

1. Add 6.8mL of normal saline to 2 Gm Ampicillin = 250 mg/mL (undiluted) OR Add 3.5 ml of normal saline to 1 Gm Ampicillin = 250 mg/ml (undiluted)
2. Add 0.5 ml of 1:1 solution to 4.5ml of Albumin diluent = 25 mg/ml (1:10 dilution)
3. Storage/Stability: Ampicillin 25 mg/mL may be refrigerated for up to 48 hours once diluted for skin testing.¹

Oral Amoxicillin (250mg/5ml)

1. Tap bottle until all powder flows freely.
2. Add 30 ml of tap water to container and mix vigorously to wet powder.
3. Add additional 72 ml of tap water (total water for reconstitution is 102 ml) and shake vigorously until thoroughly mixed.
4. Date solution to expire 14 days from date of reconstitution.
5. Refrigerate
6. Always shake before use.

References:

1. Cojuc-Konigsberg G, Brown SD, Park MA, Kita H, Gonzalez-Estrada A. *Stability of ampicillin and penicillin minor determinants used in penicillin skin testing*. J Allergy Clin Immunol Pract. 2023;11(11):3534-3536.