

## ampicillin 30 mg/mL in 0.9% NaCl IV syringe (PEDS)

**\*use floor stock syringe: ampicillin 1 g/33 mL 0.9% NaCl**

### SUPPLIES

*include quantity and medication name, strength/concentration, volume, diluent, diluent volume, and quantity and name of each supply needed*

**NS flush syringes are never to be used for reconstitution/diluent for medication.**

**Reconstituted solution is for single patient use only.**

- One (1) ampicillin 1 g powder vial
- One (1) Sterile Water for Injection (SWFI) 10 mL vial
- One (1) 0.9% NaCl 50 mL bag
- Alcohol swabs
- Two (2) 18-gauge needles preferred (20-23 gauge needles acceptable)
- One (1) 10 mL sterile IV syringe
- One (1) 50 mL sterile IV syringe
- One (1) appropriate sterile IV syringe size for patient specific dose
- One (1) syringe connector (Fluid Dispensing Connector)
- Nursing IV admixture label(s) – Lawson # 626

### STEPS

*explicitly state each step in chronological order, including hand washing, gown/garb, alcohol swab, etc.)*

1. Wash hands. Prepare/clean the designated mixing area.
2. Flip the cap off of the ampicillin 1 g powder vial and SWFI 10 mL vial, wipe the rubber stoppers and the injection port of the 0.9% NaCl bag with alcohol swabs.
3. Attach 18 gauge needle to the 10 mL syringe. Withdraw a total of 7.4 mL of SWFI from the 10 mL SWFI vial and transfer into ampicillin 1 g vial to reconstitute. Gently agitate to mix. Discard syringe with needle into a sharp container.
4. Attach 18 gauge needle to the 50 mL syringe. Withdraw the entire contents of reconstituted ampicillin 1 g vial into a 50 mL syringe.
5. Using the syringe containing ampicillin injection, withdraw a sufficient volume from the 0.9% NaCl bag for a total volume of 33 mL. Discard the remaining 0.9% NaCl bag.
6. Gently invert syringe to mix. Do not shake. Visually inspect solution (e.g. free of inappropriate visible particulates or other foreign matter, discoloration, and defect), and the container integrity is intact. Discard if any defects.
7. Label the ampicillin 1 g/33 mL 0.9% NaCl floor stock syringe with:
  - a. Drug name, strength, and dose (if not apparent by the container)
  - b. Diluent and volume (if not apparent by the container)
  - c. Hang-by date and time (**administration must begin within 1 hour from the time of compounding**)
  - d. Initials of person compounding
8. Attach the ampicillin 1 g/33 mL 0.9% NaCl stock syringe and syringe for patient specific dose to syringe connector. Transfer patient-specific ordered dose volume into syringe for patient specific dose.
9. Discard the floor stock syringe once dose is withdrawn.
10. Visually inspect the final syringe for particulate matter/defects. Discard if any defects.
11. Label the final syringe with the following information:
  - a. Patient name and location
  - b. Drug name, strength, and dose (if not apparent by the container)
  - c. Diluent and volume (if not apparent by the container)
  - d. Hang-by date and time (**administration must begin within 1 hour from the time of dose withdrawn from floor stock bag**)
  - e. Initials of person compounding

### References

- Ampicillin injection [prescribing information]. Lake Zurich, IL: Fresenius Kabi USA, LLC. Revised: 10/2022.  
<https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=8dbb4c71-8543-08f1-e053-2995a90af88d&type=display>

## Single-Patient Nurse Mixing Instruction Sheet

Non-24/7 Pharmacies and Free-Standing Emergency Department

- United States Pharmacopeia (USP). General Chapter, <797> Pharmaceutical Compounding—Sterile Preparations. (2023) USP-NF. Rockville, MD: United States Pharmacopeia.  
<https://ochsnerhealth.sharepoint.com/sites/ClinicalResources/SiteAssets/Forms/AllItems.aspx?id=%2Fsites%2FClinicalResources%2FSiteAssets%2FSitePages%2FRegulatory%2DReadiness%2FUSP%2D797%2DOfficial%2D11%2E1%2E23%2Epdf&parent=%2Fsites%2FClinicalResources%2FSiteAssets%2FSitePages%2FRegulatory%2DReadiness>.