

sodium bicarbonate 75 mEq/1,000 mL 0.45% 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.*****

- Two (2) sodium bicarbonate injection, 8.4%, 1 mEq/mL (50 mL) vials or ABBOJECT syringes (if available)
- One (1) 0.45% sodium chloride (NaCl) 1,000 mL bag
- Alcohol swabs
- Two (2) 18 gauge needles preferred (20-23 gauge needles acceptable)
- Two (2) 50 mL sterile IV syringes
- 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 sodium bicarbonate 1 mEq/mL injection vials, wipe the rubber stoppers and the injection port of the 0.45% NaCl bag with alcohol swab.
3. If use sodium bicarbonate vials: attach 18 gauge needle to syringes. Withdraw 50 mL of sodium bicarbonate 1 mEq/mL injection vial into a syringe and withdraw 25 mL of sodium bicarbonate 1 mEq/mL injection vial into the other syringe.
 - a. If use sodium bicarbonate ABBOJECT syringes, skip to step #4.
4. Transfer content of both syringes (total 75 mL) of sodium bicarbonate 1 mEq/mL injection into the 0.45% NaCl 1,000 mL bag, and discard syringe with needle into a sharp container.
5. Gently invert bag 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.
6. Label the sodium bicarbonate 75 mEq/1,000 mL 0.45% NaCl bag 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

References

- Sodium bicarbonate injection [prescribing information]. Lake Forest, IL: Hospira, Inc. Revised 3/2021.
<https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=084f5572-8c1f-4802-b179-ca0cc838fc68&type=display>.
- 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>.

Single-Patient Nurse Mixing Instruction Sheet
Non-24/7 Pharmacies and Free-Standing Emergency Department