

sodium bicarbonate 150 mEq/1,000 mL D5W

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.*****

- Three (3) sodium bicarbonate injection, 8.4%, 1 mEq/mL (50 mL) vials, or ABBOJECT syringes (if available)
- One (1) dextrose 5% in water (D5W) 1,000 mL bag
- Alcohol swabs
- Six (6) 18 gauge needles preferred (20-23 gauge needles acceptable)
- Six (6) 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 D5W bag with alcohol swab.
3. Attach 18 gauge needle to three (3) syringes. Withdraw 50 mL from D5W bag into each syringe (a total of 150 mL of D5W) and discard syringes with needle into a sharp container.
4. If use sodium bicarbonate vials: attach 18 gauge needle to three (3) syringes. Withdraw 50 mL of sodium bicarbonate 1 mEq/mL injection vial into each syringe.
 - a. If use sodium bicarbonate ABBOJECT syringes, skip to step #5.
5. Transfer content of all three syringes (total 150 mL) of sodium bicarbonate 1 mEq/mL injection into the D5W bag, and discard syringe with needle into a sharp container.
6. 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.
7. Label the sodium bicarbonate 150 mEq/1,000 mL D5W 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