

thiamine 100 mg/100 mL D5W or 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.*****

- One (1) thiamine 200 mg/2 mL injection vial
- One (1) dextrose 5% in water (D5W) or 0.9% NaCl 100 mL (depending on Epic ordered diluent)
- Alcohol swabs
- One (1) 18 gauge needle preferred (20-23 gauge needles acceptable)
- One (1) 3 mL sterile IV syringe
- 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 thiamine 200 mg/2 mL injection vial, wipe the rubber stopper with alcohol swab, and wipe the injection port of the ordered diluent bag.
3. Attach 18 gauge needle to syringe. Withdraw 1 mL from thiamine 200 mg/2 mL injection vial.
4. Transfer 1 mL of thiamine 200 mg/2 mL injection into the ordered diluent 100 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 thiamine 100 mg/100 mL 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

NOTES

- Protect final product from light. Cover with light protected plastic bag (e.g. brown plastic bag).

References

- Thiamine injection [prescribing information]. Lake Zurich, IL: Fresenius Kabi USA, LLC. Revised 10/2019.
<https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=ca4899c6-cea1-48d6-b0ae-9efcf67f6fcb&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>.