

insulin regular 100 units in 0.9% NaCl 100 mL

SUPPLIES

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

- One (1) insulin regular 100 units/mL (10 mL) injection vial
- One (1) 0.9% NaCl 100 mL
- 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

1. Wash hands. Prepare/clean the designated mixing area.
2. Flip the cap off of the insulin regular 100 units/mL injection vial, wipe the rubber stoppers with alcohol swab and wipe the injection port of the 0.9% NaCl bag.
3. Attach 18 gauge needle to syringe and withdraw 1 mL of insulin regular 100 units/mL injection.
4. Transfer 1 mL of insulin regular 100 units/mL injection into the 0.9% NaCl 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 insulin regular 100 units in 0.9% NaCl 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
7. Return insulin regular 100 units/mL (10 mL) injection vial to Pyxis refrigerator.

NOTES

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

References

- Insulin regular (Novolin R) [prescribing information]. Plainsboro, NJ: Novo Nordisk Inc. Revised 11/2022.
<https://dailymed.nlm.nih.gov/dailymed/fda/fdaDrugXsl.cfm?setid=aee7f1f3-612c-4027-8ce9-4fd1f41eed71&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>