



## Applicability

This document applies to AHS, Covenant Health, and all other health care professionals involved in the transfusion of blood components and products in Alberta.

## Supplies Required

Use only the supplies and pre-filled syringe of solvent provided with the product for reconstituting the product.

### Contained in Box

- Vial of lyophilized product
- MixPro® reconstitution system:
  - Pre-filled glass syringe with solvent
  - Vial adapter
- Plunger rod for syringe

### Separate Supplies

- Sterile plastic Luer lock syringe, large enough to contain dose if:
  - You are combining multiple vials\*
  - The pre-filled glass syringe with diluent is not compatible with the needless connect for the patient's intravenous catheter\*\*
- IV administration pump and set (if required)
- Alcohol swabs



**Aseptic technique must be used at all times**

## Instructions:

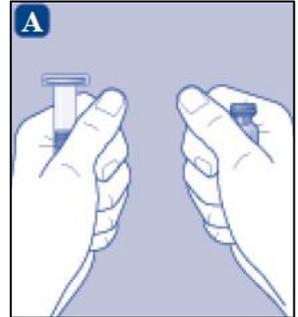
**\*Note:** If you are reconstituting multiple vials, each vial should be individually dissolved according to the instructions below, then use a separate larger luer lock syringe to draw back the dissolved content of each vial. Do not detach the diluent syringes or the large luer lock syringe until you are ready to attach the large luer lock syringe to the next vial adapter.

**\*\*Note:** The pre-filled glass syringe with diluent used to reconstitute and administer product may not be compatible with all needless connectors for intravenous catheters (e.g. ICU Medical MicroClave® Neutral Connector). You may need to withdraw reconstituted product into a sterile 10 mL plastic syringe with a standard luer-lock connector.

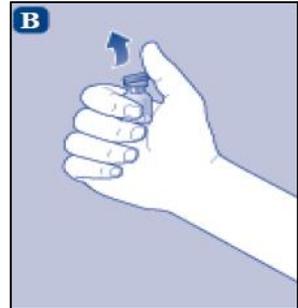


1. Take the vial, the vial adapter, and the prefilled syringe out of the carton. Leave the plunger rod untouched in the carton.
2. Bring both the unopened product vial and prefilled diluent syringe to room temperature (do not exceed 37°C). You can do this by holding them in your hands until they feel as warm as your hands.

Do not use any other way to warm the vial and prefilled syringe.



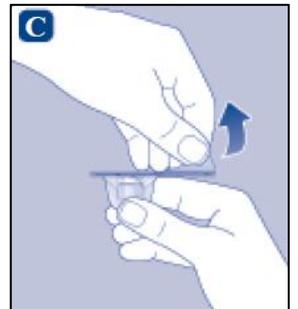
3. Remove the plastic cap from the vial. If the plastic cap is loose or missing, do not use the vial.



4. Wipe the rubber stopper with a sterile alcohol swab and allow it to dry.

5. Remove the protective paper from the vial adapter. Do not remove the vial adapter from the package.

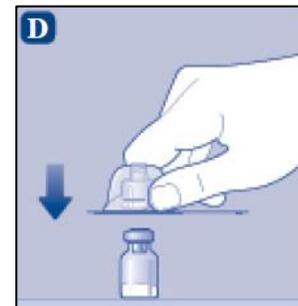
If the protective paper is not fully sealed or if it is broken, do not use the vial adapter



6. Place the vial on a flat, solid surface.

Turn over the protective cap and snap the vial adapter onto the vial.

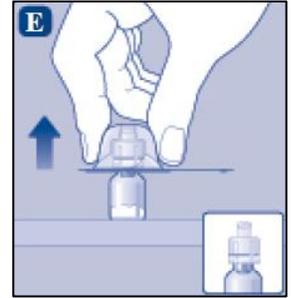
Once attached, do not remove the vial adapter from the vial.





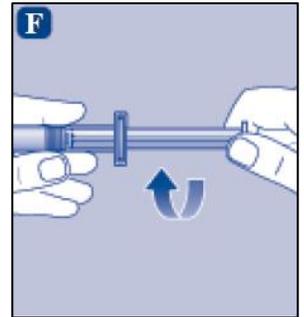
7. Lightly squeeze the protective cap with your thumb and index finger. Remove the protective cap from the vial adapter.

Do not lift the vial adapter from the vial when removing the protective cap.



8. Grasp the plunger rod by the wide top end and take it out of the carton. Do not touch the sides or the threads of the plunger rod.

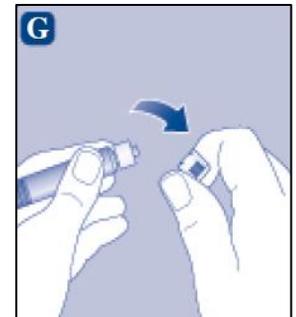
Immediately connect the plunger rod to the syringe by turning it clockwise into the plunger inside the prefilled syringe until resistance is felt.



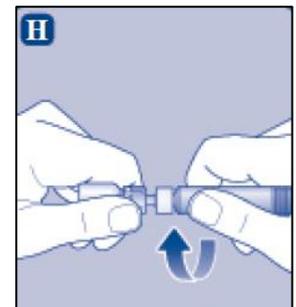
9. Remove the syringe cap from the prefilled syringe by bending it down until the perforation breaks

Do not touch the syringe tip under the syringe cap.

If the syringe cap is loose or missing, do not use the prefilled syringe.

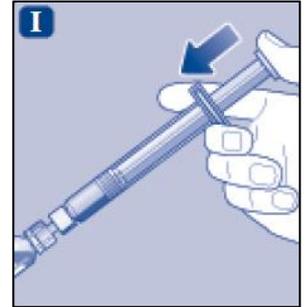


10. Screw the prefilled syringe securely onto the vial adapter until resistance is felt.





11. Hold the prefilled syringe slightly tilted with the vial pointing downwards. Push the plunger rod to inject all the solvent into the vial.



12. Keep the plunger rod pressed down and swirl the vial gently until all the powder is dissolved.

Do not shake the vial, as this will cause foaming.

Visually inspect the reconstituted solution. It must be colourless. If you notice visible particles or discoloration, do not use it.



13. If more than one vial is required, reconstitute each vial separately following steps 1-12.

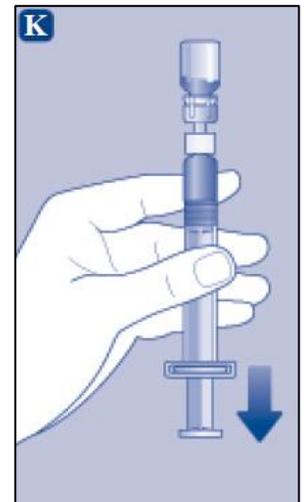
14. Keep the plunger rod pushed completely in and turn the syringe with the vial upside down.

Stop pushing the plunger rod and let it move back on its own while the reconstituted solution fills the syringe.

Pull the plunger rod slightly downwards to draw the reconstituted solution into the syringe.

If, at any point, there is too much air in the syringe, inject the air back into the vial.

While holding the vial upside down, tap the syringe gently to let any air bubbles rise to the top and push the plunger rod slowly until all air bubbles are gone.

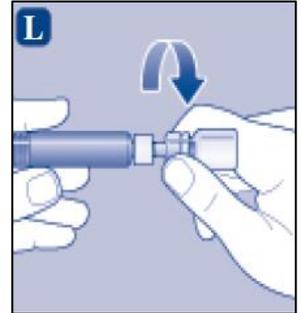


\*Note: if the glass syringe is not compatible with the needless connect for the patient's intravenous catheter, or if multiple vials will be infused, withdraw the solution into a separate sterile luer lock plastic syringe instead of the glass syringe provided.



15. Unscrew the vial adapter with the vial

Do not touch the syringe tip.



16. Label the syringe with a medication label per AHS Labelling Medications Guideline

## Contact Information

*For questions or comments about this document, please contact*  
[Transfusion.SafetyTeam@albertaprecisionlabs.ca](mailto:Transfusion.SafetyTeam@albertaprecisionlabs.ca)

## References

NiaStase® Product Monograph. Available from [www.novonordisk.ca](http://www.novonordisk.ca)  
Labelling Medications AHS Guideline HCS-185-01