



## Applicability

This document applies to all health care professionals who reconstitute blood products using the West® Mix2Vial® needle-free transfer device.

## Supplies Required

Use only the diluent provided with the product. The vial adapter must be used for reconstitution to ensure the product is filtered.

### Contained in Box

- Lyophilized blood product vial
- Diluent vial
- Mix2Vial® device
- Luer lock syringe

### Separate Supplies

- Antiseptic swabs
- Luer lock syringe, large enough to contain dose.



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

## Instructions

1. Bring the blood product and diluent to room temperature, if required (refer to product monograph)
2. Clean the stoppers:
  - Remove the flip caps from both the blood product and diluent vials
  - Wipe the rubber stoppers with an antiseptic swab and allow them to dry.
3. Open the Mix2Vial® device package:
  - Peel away the lid
  - To maintain sterility, leave the Mix2Vial® device in its clear outer package.



The Mix2Vial® device must be attached to the diluent vial **before** being attached to the blood product vial to ensure the vacuum in the blood product vial is not lost.



4. Prepare the diluent vial:

- Place the diluent vial on an even, flat surface and hold the vial tightly.
- Grip the Mix2Vial® device, keeping it in the package.
- Holding the Mix2Vial® device vertically, push the plastic spike of the blue end of the device firmly through the center of the diluent vial stopper until the device snaps into place.



5. Remove the Mix2Vial® device packaging:

- While holding the diluent vial, carefully remove the outer package from the Mix2Vial® device.
- Make sure to pull off only the package, not the Mix2Vial® device.
- Take care not to touch the exposed end of the device.



6. Transfer the diluent into the blood product vial

- Place the product vial on a flat even surface and hold the vial tightly.
- Invert the diluent vial with the Mix2Vial® device attached to it.
- Push the plastic spike of the clear end of the Mix2Vial® device firmly through the center of the diluent vial stopper until the device snaps into place.
- The diluent will transfer into the blood product vial.



Note: refer to [Troubleshooting](#) at the end of this document if the vacuum does not draw the entirety of the diluent into the blood product vial.

7. Dissolve Blood Product

- With the diluent and blood product vial still attached to the Mix2Vial® device, gently swirl the blood product vial to ensure the product is fully dissolved.
- Do not shake the vial.





8. Remove the empty diluent vial:

- With one hand, grip the clear end of the Mix2Vial® device.
- With the other hand, grip the blue end of the Mix2Vial® device and unscrew by turning it counterclockwise.
- Do not remove the clear end of the transfer device from the product vial.



9. Load the syringe:

- Draw air into an empty, sterile syringe. Use the syringe provided with the product.
- With the blood product vial upright, screw the syringe to the Mix2Vial® set.
- Inject air into the product vial.
- While keeping the syringe plunger pressed, invert the blood product vial and draw the solution into the syringe by pulling the plunger back slowly.

10. If multiple vials are required for the dose:

- Reconstitute each product vial separately using its own transfer device.
- Use an appropriate size syringe and follow the directions in step 9 above to withdraw multiple vials into the syringe, if appropriate (refer to product monograph)



11. Remove the syringe from the Mix2Vial® Set

- Once the solution has been transferred into the syringe, firmly grip the barrel of the syringe (keeping the plunger facing down).
- Unscrew the syringe from the Mix2Vial® set by turning the barrel counterclockwise.





## Troubleshooting

If the vacuum is lost or is insufficient to transfer the entire volume of diluent:

1. Grasp the outer rim of each of the Mix2Vial® components.
2. Unscrew counterclockwise to separate.
3. Place both vials on a clean surface or countertop.
4. Carefully detach the blue component of the Mix2Vial® from the diluent vial and discard.
5. Swab the diluent vial top with an antiseptic swab.
6. Without touching the white luer lock tip, attach a clean syringe to this end and tighten firmly. Remove the clear component of the Mix2Vial® from the product vial with the syringe attached.
7. Wipe the product vial top with an antiseptic swab
8. Draw a volume of air into the syringe that is equivalent to the remaining volume of diluent in the vial.
9. Place the clear component with the attached syringe into the diluent vial, and inject the air into the diluent vial.
10. Invert the vial and draw the remaining diluent into the syringe.
11. Remove the clear component of the Mix2Vial® with the attached syringe from the diluent vial.
12. Place the clear component with the attached syringe containing the diluent onto the product vial.
13. Carefully push the diluent into the product vial.

## Contact Information

[Transfusion.SafetyTeam@aplabs.ca](mailto:Transfusion.SafetyTeam@aplabs.ca)

## References

Mix2Vial® Instructional Video, available from [www.westpharma.com](http://www.westpharma.com)