

<b>Blood Bank Manual Department of Pathology</b>	<b>Document No. TRAN 6006 Ja Page 1 of 1</b>
<b>Transfusion Services Convert 0.8% to 3% Cell Suspension</b>	<b>Origination: 06/2014 Version: 0</b>

<b>Policy Statement</b>	Reagent cells used in testing are the appropriate suspension for the method.
<b>Purpose</b>	This procedure provides instructions for concentrating 0.8% reagent cells to 3% for use in tube tests.
<b>Scope</b>	This applies to all testing personnel in the Transfusion Service.
<b>Responsibility</b>	This applies to all testing personnel in the Transfusion Service.

### **Preanalytical Considerations**

- This procedure is only utilized in the rare circumstance where a particular phenotype from 0.8% reagent cells is not available in 3% reagent cells and the test needs to be performed using the tube method.
- Determine the volume of 3% reagent needed for testing to determine the volume needed to follow the procedure.
  - For example, if three drops of 3% reagent cells are required for testing, the procedure will require 12 drops of 0.8% reagent cells.

### **Procedure**

1. Select the 0.8% reagent cell to concentrate and mix well.
2. Add four volumes of 0.8% reagent cells to a clean, labeled tube.
3. Centrifuge for the calibrated time.
4. Carefully remove the supernatant.
5. Resuspend the cells with four volumes of blood bank saline.
6. Centrifuge for the calibrated time.
7. Carefully remove the supernatant.
8. Resuspend the cells with one volume of blood bank saline.
9. Cell suspension will be approximately 3%.
  - a. Visually compare the suspension to a commercially prepared 3% suspension and if there is a discrepancy, prepare a new concentration.

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