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| **Making a 1.0% Donor Cell Suspension** |
| **Purpose** | This procedure provides instructions for how to prepare a 1.0% donor unit red cell suspension from a unit segment of pilot tube required in performing AHG crossmatches using gel cards. |
| **Policy Statements** | * 1.0% red cell suspension are required for IH-Cards testing methodologies.
* Diluted red cells should be used on the day of dilution.
* The date of expiration for open containers IH-LISS Solution will not change if stored at proper conditions of 2-8°C and
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| **Related****Documents** | TS 4.6 Labeling Tubes |
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| **Materials** | **Equipment** | **Reagents** | **Supplies** |
| * Hematype segment device
* 1000μL MLA pipette
* 10μL MLA pipette
 | * IH-LISS Solution
 | * 12 x 75 mm tubes
* MLA pipette tips
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| **Sample** | Attached donor unit segment or pilot tube. |
| **Quality Control** | IH-LISS Solution should be visually checked to ensure that the liquid is not discolored, turbid or showing any signs of bacterial contamination.Pipette calibrations are performed bi-annually. |
| **Procedure** |  |
|  | **Step** | Action |
|  | 1 | Label 2 clean 12x 75 mm tubes the last 3 digits of the donor number or a unit ID labels. *Note: If working with a pilot tube, start at step 7.*  |
|  | 2 | Pinch the donor segment at the cells and plasma intersection.Note: If no clear intersection:1. Place the intact segment the 12 x 75 mm tube and centrifuge for 15 seconds in the serofuge. (OR)
2. Place the intact segment vertically in a rack until the cells settle.
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|  | 3 | Place a Hematype device on top of the first labeled tube. |
|  | 4 | Insert the cell end of the segment into the Hematype and squeeze the donor rbcs into the tube. |
|  | 5 | Discard the Hematype and segment. |
|  | 6 | Pipette 1.0 mL of room temperature IH-LISS Solution into the second labeled tube. |
|  | 7 | Pipette 10μL of donor red cells from tube 1 (or pilot tube) into the tube with the IH-LISS Solution. |
|  | 8 | Mix cells and diluent to resuspend. |
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| **References** | 1. IH-Card test systems, Bio-Rad Medical Diagnostics GmbH, (current version)
2. IH-LISS Solution, Bio-Rad Medical Diagnostics GmbH, (current version)
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| **Approval****Workflow** | Transfusion Service/Technical Specialist |
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| **Historical Record** | **Version** | **Written/Revised by:** | **Effective Date:** | **Summary of Revisions** |
| 1 | J. Wenzel | 02/08/2008 | Initial Version |
|  | 2 | S. Cassidy | 5/11/2012 | Renumbered from TS 7.16 to TS 7.14 |
|  | 3 | S. Cassidy | 02/17/2023 | Updated for new reagents |