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| **Making a 1.0% Patient Cell Suspension** |
| **Purpose** | This procedure provides instructions for how to prepare a 1.0% patient red cell suspension from a whole blood sample required in performing a direct Coombs or autologous control test using gel cards. |
| **Policy Statements** | * 0.1% red cell suspension using IH-LISS Solution is required for IH-Card Gel testing

 methodologies.* Diluted red cells must be used on the day of dilution.
* The date of expiration for opened containers of IH-LISS Solution will not change if stored at 2-8C

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| **Materials** | **Equipment** | **Reagents** | **Supplies** |
| * 1000μL MLA pipette
* 10μL pipette
 | * IH-LISS Solution
 | * 12 x mm 75 tubes
* MLA pipet tips
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| **Sample** | Refer to testing procedure for sample requirements. |
| **Quality Control** | IH-LISS should be visually checked to ensure that the liquid is not discolored, turbid or showing any signs of bacterial contamination**.**. |
| **Procedure** |  |
|  | **Step** | Action |
|  | 1 | Label a clean 12 x 75 mm tube with the patient name or a Sunquest patient label.  |
|  | 2 | Pipette 1.0 mL (1000μL) of IH-LISS into the tube. |
|  | 3 | Pipette 10μL of **PACKED** patient red cells into the tube using a MLA or Biohit pipette.

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| **If** | **Then** |
| Using the 10μL MLA pipette | 1. Attach tip
2. Aspirate 10μL of packed red cells
3. Dispense cells into the tube containing the 1.0 mL of diluent.
4. Discard used tip
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|  | 4 | Mix cells and diluent to resuspend. |
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| **References** | IH-Card Gel Test Methods, Ortho-Clinical Diagnostics, (current version)MTS Diluent 2 package insert, Ortho-Clinical Diagnostics, (current version) |
| **Approval****Workflow** | Transfusion Service/Laboratory Director |
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| **Historical Record** | **Version** | **Written/Revised by:** | **Effective Date:** | **Summary of Revisions** |
| 1 | J Wenzel | 2/08/2008 | Initial Version |
| 2 | J Wenzel | 4/10/2012 | CMS format |
|  | 3 | S. Cassidy | 02/17/2023 | Updated for new reagents |