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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.   |  |  | | --- | --- | | **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 | | | | | | |
|  | 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 | |