**Purpose:**

This procedure provides instructions for immediate spin crossmatch to detect ABO incompatibility when the computer crossmatch is not available.

**Procedure:**

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|  | **Action** | **Related Documents** |
| **1** | * Confirm sample acceptability. | * Sample Acceptance Evaluation |
| **2** | * For each donor unit to be tested:   + Label tubes.   + Arrange the tubes in the rack. | * Labeling Tubes for Manual Bench Testing * Manual Bench Set Up |
| **3** | * Prepare a 3-5% cell suspension of donor cells. | * Preparation of 3% to 5% Red Cell Suspension |
| **4** | * Add 2 drops patient plasma/serum to each crossmatch tube. |  |
| **5** | * Add 1 drop 3% to 5% suspension of the donor red cells to corresponding tube. |  |
| **6** | * Mix the tubes **immediately.** * Centrifuge for the posted time in a calibrated serologic centrifuge. |  |
| **7** | * Immediately after centrifugation:   + Resuspend the cells, and   + Read macroscopically and record results. | * Reading and Grading Tube Hemagglutination Reactions |

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| --- | --- | --- | --- | --- | --- | --- |
|  | | **Action** | | | | **Related Documents** |
| **8** | * Consult the following table to interpret the compatibility test result. | | | |  | |
| If the IS results show | | Then | Report the crossmatch as |
| * No hemolysis and no agglutination | | * Serologic incompatibility was not present or was undetected. | * Compatible |
| **9** | * Identify and resolve any hemolysis, agglutination, discrepancy or disparity. | | | |  | |
|  | * Confirm ABO/Rh of patient and donor. * Repeat with a new cell suspension from a new donor sample. * Consider cold antibody that may be present in patient’s plasma, such as P or M. | | | | * ABO Discrepancy   Resolution | |
| **10** | * Check that the record is complete   + Date and time of completion,   + Technologist identification   + Final clerical check. | | | |  | |

References:

AABB Standards for Blood Banks and Transfusion Services, Current Edition

AABB Technical Manual, Current Edition