**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
 |

|  |  |  |
| --- | --- | --- |
|  | **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