1. **Principle**

Simultaneous forward and reverse grouping, Rh(D) testing using standard Hemagluttination Technology.

ABO and Rh(D) typing demonstrates the presence of blood group antigens A,B and D by testing the patient red cells with known antisera, In this case monoclonal anti-A, anti-B and anti-D are added to CMT(blank) micro well strips. The monoclonal control must be negative for the ABO/Rh (D) results to be valid.

1. **Scope and Related Policies**
	1. ABO grouping shall be determined by testing the patient’s red cells with anti-A and anti-B reagents. The Rh type shall be determined by testing the patient’s red cells with monoclonal anti-D reagent.
	2. For Donor Unit confirmation only forward grouping is required.
	3. See TM Policy Manual POL 06-11 “Retesting Blood Donor Units”
2. **Specimen**
	1. One segment from Donor unit.
	2. Segments that show excessive hemolysis may have to be spun down and washed.
3. **Material**

Equipment: Immucor Galileo Echo

Supplies: Liquid waste bottle (1)

PBS bottle (1)

Strip holder/trays

Reagent/Donor racks

Reagents: Anti-A series 1

 Anti-B series 3

 Anti-D series 4

 Monoclonal control

 CMT strips

 WB corQC

 PHIX buffered saline

1. **Quality Control**

Commercial QC – WB corQC is run daily. Once accepted as valid results, ABO/Rh(D), 3 cell screen, Ready-ID, Extend I and Extend II may be performed throughout the 24 hour control interval.

1. **Procedure**
	1. Place bar code from donor unit onto a plastic or glass 12 x 75 mm test tube.
	2. Clip and drain 1 segment from donor unit into respectively labelled tube
	3. Place Donor Unit on Donor rack. Place Donor rack on Echo.
	4. Click on the running man.
	5. Select “Confirm”. Click “Next”.
	6. Select samples. Click Next.
	7. Load required strips/reagents
	8. Click ‘Begin Tests”.
	9. Refer to “Performing a Run on the Echo”.
2. **Reporting**
	1. Results are viewed and confirmed by the technologist operating the Echo. The results are then approved exported and verified in the LIS (Cerner).
	2. Review all equivocal (?) results.
	3. Equivocal (?) results may be changed by right clicking on the sample ID in the left hand pane and selecting “Edit Results”.
	4. Notify front bench when unit testing is complete
3. **Procedural Notes**
	1. For every Donor Confirmation, the Echo will use half a CMT strip.
	2. Partially used strips cannot be reused
	3. See “Performing a Run on the Echo”
4. **References**
	1. Galileo Echo Operator Manual
	2. SWIM manual