1. **Principle**

Simultaneous forward and reverse grouping, Rh(D) testing and 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 “Greiner” micro titre plates. The serum/plasma is tested with known A1 and B cells. 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 NEO

Supplies: Liquid waste bottle (1)

System liquid containers (2)

Plate carriers

Reagent/Donor racks

Reagents: Anti-A series 1

Anti-B series 3

Anti-D series 4

Monoclonal control

Greiner ABO plates

CorQc Std

PHIX buffered saline

1. **Quality Control**

Commercial QC – CorQc Std and Capture-R positive and negative serum controls are run daily. Once accepted as valid results, ABO/Rh(D) and 3 cell screen 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 NEO.
   4. Order FWD\_ABORH.
   5. Load required resources.
   6. Click Start.
2. **Reporting**
   1. Results are verified and exported to LIS by the technologist operating the NEO. The NEO technologist shall verify each result in Cerner.
   2. Review and edit all equivocal (?) results.
   3. Notify front bench when unit testing is complete
3. **Procedural Notes**
   1. For every Donor Confirmation, the NEO will use one Greiner plate column.
   2. See “Performing a Run on the NEO”
4. **References**
   1. Galileo NEO Operator Manual
   2. SWIM manual