1. **Principle**

To test for a weak expression of the D antigen.

Red cells that react weakly or not at all in direct agglutination tests with anti-D may react with anti-D by the Capture Solid Phase Weak D testing.

Red cells that fail to react a grade 2 in direct agglutination tests with anti-D are incubated with Anti-D at 37C with LISS in the Capture-R Select strips. The strips are then washed and IgG coated indicator cells added.

1. **Scope and Related Policies**

Refer to SWIM manual, RT.003 “Weak D Typing”

1. **Specimen**
   1. EDTA anticoagulated Red Blood Cells.
   2. For assays using Capture-R® Select, do not use hemolyzed samples of grade 1+ or greater for creating a monolayer. Fragmented red blood cell membranes will interfere with monolayer formation.
2. **Material**

Equipment: Immucor Galileo NEO

Supplies: System Liquid containers

Liquid waste container

Plate carriers

Reagent/Sample racks

Reagents: PHIX buffered Saline

Anti-D Series 4

Capture-R Select Strips

Capture LISS

Monoclonal Control

CorQc Std

Capture-R Indicator Cells

1. **Quality Control**

CorQc Std and monoclonal control are required for Weak D testing. The NEO will pipette a monoclonal control for each Weak D testing. Two positive and mono controls on the first strip must pass for the testing to be valid. A maximum of 2 Weak D tests can be done on the first strip. Four Weak D tests can be done on subsequent strips.

1. **Procedure**
   1. Place patient sample on sample rack.
   2. Place sample rack on Neo.
   3. Order Weak\_D testing.
   4. Load required resources.
   5. Click Start.
2. **Reporting**
   1. The results shall be reviewed and verified by the NEO technologist.
   2. At this time, we are not routinely running or reporting NEO Weak D.
3. **Procedural Notes**
   1. Weak D testing has been found to be stronger on NEO Solid Phase.
4. **References**
   1. Galileo NEO Operator Manual
   2. SWIM Manual