1. **Principle**

The Echo can perform IgG antibody panels. Three panels are available. The main panel Ready-ID, D pos Extend I and D neg Extend II.

Patient plasma and LISS are added to Capture-R panel strips pre-coated with Reagent red blood cell antigen. After incubation and wash cycle IgG coated indicator cells are added. The strips are then spun and read.

The presence or absence of antibodies can be detected in the micro wells. Agglutination indicates the absence of antigen/antibody reaction while lack of agglutination indicates the presence of antigen/antibody reaction.

1. **Scope and Related Policies**
   1. Antibody screening shall be performed at 37°C.
   2. See SWIM manual, NRT.007 “Antibody Identification of Warm Reactive Antibodies”
2. **Specimen**
   1. EDTA anticoagulated whole blood drawn within 5 days of testing.
   2. Serum from fully clotted blood that has been centrifuged and separated immediately upon receipt in the laboratory.
   3. Recently transfused or pregnant patient samples should be <4 days old.
   4. Samples that exhibit excessive hemolysis or lipemia or that are icteric should not be tested on the Galileo Echo. Samples that exhibit a hemolysis grade of 3+ or greater must not be tested on the Galileo Echo because they may generate erroneous results.
3. **Material**

Equipment: Immucor Galileo Echo

Supplies: Liquid waste bottle (1)

PBS bottle (1)

Stir balls

Strip holders/trays

Reagent/Sample racks

Reagents: Capture LISS

Capture-R Ready-ID

Capture-R Extend I & Extend II

Capture-R Indicator Cells

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 patient sample on sample rack.
   2. Place sample rack on Echo.
   3. Click on running man.
   4. Select required panel. Click Next.
   5. Select sample. Click Next.
   6. Load required strips/reagents.
   7. Click “Begin Tests”.
2. **Reporting**

Results are viewed and confirmed by the technologist operating the Echo. The specimens and requisitions are then given to the antibody bench technologist to perform any further testing.

1. **Procedural Notes**
   1. Each panel includes 14 cells, a positive and negative control.
   2. Strip controls must pass for testing to be valid.
   3. Partially used strips cannot be reused
   4. See “Performing a Run on the Echo”
2. **References**
   1. Galileo Echo Operator Manual
   2. SWIM manual