



University of Washington Medical Center 1959 NE Pacific Street. Seattle, WA 98195 Transfusion Services Laboratory Policies and Procedures Manual	Original Effective Date: 06-20-2019	Number: PC-0071.01
	Revision Effective Date:	
TITLE: Policy: Test Assays and Methodology		

PURPOSE:

To list the different testing assays performed by the University of Washington Medical Center Blood Bank (UWMC BB) and the primary and alternate methods utilized for each assay.

PRINCIPLE & CLINICAL SIGNIFICANCE:

It is important to list test assays and methodology available. Primary and alternate test methods are established to ensure standard test results regardless of the team member performing testing. This allows for accurate and reliable interpretation of red cells antigen and detection of antibody and avoids misinterpretations when recording and reporting test results.

Multiple test methods may be utilized for the same assay due to various sensitivities and the ability to continue testing in the event one method or the other is unavailable at the time of testing.

POLICIES:

- Only approved and validated test methods are utilized. In the rare event patient care requires use of a test method not validated, the Blood Bank Medical Director's approval is required prior to use of the method for the emergent patient need.
- Methods listed as the primary method will be used as the standard method to perform the test assay. Some assay may have more than one primary method to allow flexibility in meeting patient needs and workloads.
- Alternate test methods will be available if the primary test method is invalid or not available.
- In cases of patients with warm and cold autoantibodies and plasma reacting to reagent diluent, alternate test methods can be utilized as appropriate.

The following table defines the different test assays performed in UWMC Blood Bank and the different methods available for each assay:

Test Assays	Primary Test Method	Alternate Test Method
ABO/RH	Ortho MTS™ Gel Testing <ul style="list-style-type: none"> • Automated ORTHO Vision • Manual Gel 	Tube Method
Antibody Screen	Ortho MTS™ Gel Testing <ul style="list-style-type: none"> • Automated ORTHO Vision • Manual Gel 	Tube Method <ul style="list-style-type: none"> • LISS • PEG • Saline
Antibody Identification	Ortho MTS™ Gel Testing <ul style="list-style-type: none"> • Automated ORTHO Vision • Manual Gel 	Tube Method <ul style="list-style-type: none"> • LISS • PEG • Saline

Test Assays	Primary Test Method	Alternate Test Method
DAT Polyspecific	Ortho MTS™ Gel Testing <ul style="list-style-type: none"> • Automated ORTHO Vision • Manual Gel 	Tube Method
DAT IgG	Ortho MTS™ Gel Testing <ul style="list-style-type: none"> • Automated ORTHO Vision • Manual Gel 	Tube Method
DAT C3	Tube Method	NA
Antigen Typing	Tube Method	Automated ORTHO Vision MTS™ Gel Testing NOTE: Not available for all antisera
Crossmatch	Manual Ortho MTS™ Gel Testing and Immediate Spin Tube Method	Tube Method <ul style="list-style-type: none"> • LISS • PEG • Saline
Donor type confirmation	<ul style="list-style-type: none"> • Ortho MTS™ Gel Testing • Automated ORTHO Vision • Tube Method 	NA
Antibody Titer	Ortho MTS™ Gel Testing Automated ORTHO Vision	NA

INSTRUCTIONS:

NA

CALCULATIONS/INTERPRETATIONS/RESULTS REPORTING/NORMAL VALUES/CRITICAL VALUES:

NA

REFERENCES:

NA

RELATED DOCUMENTS:

NA

APPENDIX:

NA

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UWMC SOP Approval:	
UWMC CLIA Medical Director	_____ Date _____
	Mark H. Wener, MD
Transfusion Service Manager	_____ Date _____
	Nina Sen
Compliance Analyst	_____ Date _____
	Christine Clark
Transfusion Service Medical Director	_____ Date _____
	Monica Pagano, MD
UWMC Biennial Review:	
	_____ Date _____
	_____ Date _____