

TRAINING UPDATE

Lab Location: FWMC
Department: Blood Bank

Date Implemented: 3/25/25
Due Date: 4/8/25

DESCRIPTION OF PROCEDURE REVISION

| |
|--|
| Name of procedure: |
| FWMC Daily Reagent Quality Control |
| Description of change(s): |
| <p>Recently, we have had issues at all sites where staff members have failed to perform QC during their shift.</p> <p>Each shift is supposed to verify that QC was performed during the previous shift. In every case where QC was missed, the following shift also failed to identify the omission and complete QC.</p> <p>The procedure was updated to require each shift to look at the daily QC results using SmarTerm function QCR. The requirement was added to the daily duties checklist to remind staff to perform this function.</p> <p>If you note any errors in QC for a previous shift or if QC was not performed, you are required to complete QC and fill out an IQE event.</p> |



Month/Year:

Location:

Daily Reports and Tasks Form

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Day Shift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Bank Backup (BEX, BBR6, BBR15) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product File List (BBR2, allocated) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rack 1 QC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Verify Night Shift QC Reaction Results and Maintenance Tasks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arrange Blood Inventory by Expiration Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Daily Temperatures and Change Charts on Mon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microscope QC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Detailed Inventory (BBR2, INV, PLAS/CRYG) First use of Mo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transferred unit report to Inova--BBR9 (1st of month) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evening Shift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rack 2 QC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Verify Dayshift QC Reaction Results and Maintenance Tasks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Verify Day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Centrifuge Maintenance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell Washer Maintenance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plasma Thawer Maintenance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surgery Schedule | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adjust Standing Orders As Needed (BBR13) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cell Washer Weekly Maintenance (Date and Tech Code) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plasma Thawer Weekly Maintenance (Date and Tech Code) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Centrifuge QC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discard Reagent Cells >3 Months Old | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Night Shift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Expired Allocation List | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Bank Expired Crossmatches (BEC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Expired Blood Product List (BBR4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BSU Units on BBR4 to Appropriate Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Issued, Unreported Units List (BBR5) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Issue Finalization (BIF) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Short Outdate Summary (BBR12) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DAT Rack QC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Echo Maintenance and QC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Verify Evening Shift QC Reaction Results and Maint Tasks | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eyewash Check (Date and Tech Code) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Discard Old Unit Segments (First Day of Month) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Group Lead | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Review of AbID and Antigen Typing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Daily Rh negative Results Report | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Patient AD Data Update (BBR8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Quality Assurance Report (BBR7) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Incomplete Reaction Result Log (BBR18) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Merge Log (LO11) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overdue Test Log (LO2) (Weekly) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Review of QC Results (QCR) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Reagent Receipt QC Weekly (Date and Tech Code) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Verification of Backup Monthly (Date and Tech Code) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Note: Reports are routinely run on a daily basis. However, some reports may not be generated on weekends, holidays, or days in which workload is unusually high. If the report is not generated for a given day, place a hashmark (#) in the box that corresponds to the day on which the report was not performed.

Supervisor Review: Date:

Non-Technical SOP

| | | |
|--------------------|---|-----------------|
| Title | FWMC Daily Reagent Quality Control | |
| Prepared by | Stephanie Codina | Date: 7.30.2021 |
| Owner | Stephanie Codina | Date: 7.30.2021 |

| Laboratory Approval | | |
|--|-----------|-----------------------|
| Print Name and Title | Signature | Date |
| <i>Refer to the electronic signature page for approval and approval dates.</i> | | |
| Local Issue Date: | | Local Effective Date: |

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1. PURPOSE

Commercial antisera and reagent red blood cells are tested daily and prior to being placed into use for patient testing to confirm that they react as expected. Reagents in use are tested with known samples and the results are documented.

2. SCOPE

This procedure applies to commercial antisera and reagent red cells. Each reagent is tested daily and prior to being placed into use for patient testing.

3. RESPONSIBILITY


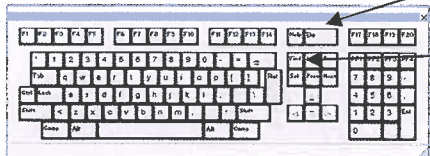
All blood bank staff members must understand and adhere to this procedure for performing reagent quality control.

4. DEFINITIONS

N/A

5. PROCEDURE

General Notes

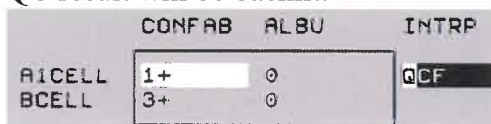

| Step | Action |
|------|---|
| 1 | Quick Notes: LAB ID = FWBB RACK ID = FW1 BATTERY = DRQC AMR = Accept, Reject, Modify |
| 2 | Click the picture of the keyboard at the top of the screen to utilize the function keys.  |
| 3 | Once the keyboard is open, use your mouse to click the keys needed. The "Find" and "Do" keys are located here.  |

Daily Quality Control

| Step | Action |
|------|--|
| 1 | Remove reagent and quality control racks from the refrigerator to allow reagents to come to room temperature. |
| 2 | Perform an inspection of reagents. <ul style="list-style-type: none"> A. Verify that the expiration date of each reagent has not been exceeded. B. Discard expired reagents and any reagents that will expire within 24 hours of quality control procedure. C. Discard reagents that will be depleted during the day. D. Replace discarded reagents with new reagents. |
| 3 | Set up gel QC per instructions below and allow to incubate and centrifuge will the remainder of QC is performed. |
| 4 | Access Sunquest SmarTerm function QCE for Quality Control Entry. <ul style="list-style-type: none"> A. At the "Tech Code" prompt, type your tech code and press "tab." B. At the "Shift" prompt, press "tab." C. At the "Lab ID" prompt, type FWBB and press tab. D. At the "Bench/Rack" prompt, type FW1 and press tab. |

| Step | Action |
|------|--|
| | If you are entering a new log or new shipment of reagent, follow the instruction in the section labeled "Reagent Receipt Process." Before continuing to the next step. |
| 5 | <p>At the "Main Menu" screen, highlight, 5. Grid Result Entry and press enter.</p> <ul style="list-style-type: none"> A. At the "Date" prompt, press enter to default the current date. B. At the "Battery" prompt, type DRQC for daily reagent quality control. C. At the "Retest" prompt, <ul style="list-style-type: none"> a. Type N and press enter if this is the first time QC has been run for the day. b. Type Y and enter if QC has already been performed for the current day and is being repeated. Reasons for repeat include: <ul style="list-style-type: none"> i. New lot or shipment of reagent is being placed into use after QC was performed for the current day. ii. QC failed and is being repeated after corrective actions have been taken. <p>Repeat QC only requires QC of the applicable reagents. You do not have to repeat QC of all reagents.</p> |
| 6 | <p>A "Rack Lot Association" screen will appear. Note: the reagents display in alphabetical order.</p> <ul style="list-style-type: none"> A. Click on the keyboard icon to display the keyboard. B. Click the Find key (located on the electronic keyboard) to display the lots of a particular reagent in use. C. Highlight the lot that corresponds to the lot printed on the reagent. Verify the correct expiration date is listed and click enter. D. Repeat these steps until all reagent lots and expiration dates have been entered. E. For "ROK" always enter a lot of "OK" with no expiration date. This is a computer placeholder for the visual inspection. F. Click on the Do key to move to the next screen. |
| 7 | <p>The "Grid Result Entry" screen will appear.</p> <ul style="list-style-type: none"> A. Visually inspect all reagents for evidence of contamination or deterioration (marked turbidity or precipitation of antisera, hemolysis of red cells). B. Enter the visual inspection for each reagent. <ul style="list-style-type: none"> a. Enter Y if the visual inspection passed. b. Enter N if the visual inspection failed. Do not use any reagents that did not pass visual inspection. Discard and place a new reagent into use. Write a PI/variance. C. Press the "Enter" key to move to the next grid. |
| 8 | <p>Perform the Immediate Spin portion of QC.</p> <ul style="list-style-type: none"> A. Label 12 test tubes 1-12. B. Add antisera to the tubes. <ul style="list-style-type: none"> a. Add 1 drop of anti-A to tubes 1 and 5. |

| Step | Action |
|------|--|
| | <ul style="list-style-type: none"> b. Add 1 drop of anti-B to tubes 2 and 6. c. Add 1 drop of anti-A,B to tubes 3 and 7. d. Add 1 drop of anti-D to tubes 4 and 8. e. Add 1 drop of confidence antibody to tubes 9 and 10. f. Add 1 drop of albumin to tubes 11 and 12. C. Visually inspect each tube to ensure the reagent is present. D. Add cells to the tubes. <ul style="list-style-type: none"> a. Add 1 drop of confidence 1 to tubes 1, 2, 3, and 4. b. Add 1 drop of confidence 2 to tubes 5, 6, 7, and 8. c. Add 1 drop of A1 cell to tubes 9 and 11. d. Add 1 drop of B cell to tubes 10 and 12. E. Gently mix each tube and serofuge for the immediate spin phase time listed on the serofuge (generally 15 seconds). F. Read one tube at a time macroscopically for agglutination using an agglutination viewer and immediately record results in the computer. G. QC1 Grid <ul style="list-style-type: none"> a. Tube 1 (from left) = Anti-A + Confidence 1 b. Tube 2 = Anti-B + Confidence 1 c. Tube 3 = Anti-A,B + Confidence 1 d. Tube 4 = Anti-D + Confidence 1 H. QC 2 Grid <ul style="list-style-type: none"> a. Tube 5 (from left) = Anti-A + Confidence 2 b. Tube 6 = Anti-B + Confidence 2 c. Tube 7 = Anti-A,B + Confidence 2 d. Tube 8 = Anti-D + Confidence 2 I. QC 3 Grid <ul style="list-style-type: none"> a. Tube 9 (left, top) = Confidence Antibody + A1 Cell b. Tube 10 (left, bottom) = Confidence Antibody + B Cell c. Tube 11 (right, top) = Albumin + A1 Cell d. Tube 12 (right, bottom) = Albumin + B Cell |
| 9 | <p>Perform the Gel portion of QC. Note: It is acceptable to set up, incubate, and centrifuge gel QC while performing the other parts as long as results are entered at the time they are read.</p> <ul style="list-style-type: none"> A. Obtain an Anti-IgG gel card. Visually inspect the gel card before use. Each microtube should have a clear liquid layer on top of opaque gel. Do not use gel cards if the gel matrix is absent or the liquid level in the microtube is at or below the top of the gel matrix. Do not use gel cards that show signs of drying, discoloration, bubbles, crystals, or other artifacts. Do not use cards if foil seals appear damaged or opened. B. Label the 3 microtubes with "Confidence Antibody" and the other 3 with "Albumin" label the individual microtubes as 1, 2, and 3. C. Remove the foil seal from the gel card. Inspect the gel card to ensure that residual film does not block the opening of any microtube. D. Add 50 uL of red blood cells to each microtube. Do not allow the pipette tip to touch the microtube. Erroneous results due to carryover may occur. |

| Step | Action |
|------|---|
| | <p>a. Add 50 μL of screen cell I to both microtubes labeled “1.”</p> <p>b. Add 50 μL of screen cell II to both microtubes labeled “2.”</p> <p>c. Add 50 μL of screen cell III to both microtubes labeled “3.”</p> <p>E. Add 25 μL Confidence Antibody to the three tubes labeled as such.</p> <p>F. Add 25 μL of albumin to the three tubes labeled as such.</p> <p>G. Incubate the gel card for 15 minutes at 35-39°C. Do not allow incubation to exceed 40 minutes.</p> <p>H. After incubation, centrifuge the gel card at the preset conditions.</p> <p>I. After centrifugation, remove the gel card from the centrifuge.</p> <p>J. Observe and read macroscopically the front and back of each microtube for agglutination and/or hemolysis and record reactions. If either side of the microtube is positive, the reaction is considered to be positive.</p> <p>K. Record results immediately in the Gel QC grid.</p> |
| 10 | <p>As you enter results, Sunquest will interpret whether QC is acceptable.</p> <p>A. If acceptable, the interpretation will update to “QCP.”</p> <p>B. If unacceptable, the interpretation will update to “QCF” and the failed QC result will be backlit.</p>  <p>C. Type the * asterisk key to open the “Modify, Accept, Reject, or Comment” fields.</p> <p>D. Enter a comment if a new lot or shipment of reagent was placed into use (Ex: New shipment of albumin lot 123456 placed into use).</p> <p>E. Accept the result to save.</p> |
| 11 | <p>If any of the QC results failed, utilize the “Out of Range Quality Control” section of this procedure to troubleshoot. Sunquest will require a failure code and comment.</p> <p>A. Enter the appropriate Quality Control modifier code from Appendix A.</p> <p>B. At the “Edit Comment” prompt, type “Y.”</p> <p>C. Type a comment that outlines the problem, corrective actions, and patient impact.</p> <p>D. Press the F1 key to save.</p> <p>E. Type the E key and enter to exit.</p> <p>F. Select Accept, Modify, Reject and press enter.</p>  |

Reagent Receipt Process

| Step | Action |
|------|---|
| 1 | This process is followed when placing a new bottle or new shipment of reagent into use. |
| 2 | Access SmarTerm function QCE (QC Entry). |
| 3 | Select 1. Lot Entry . |
| 4 | At the “MFG Code” prompt, type one of the following and press the tab key. A. WER for Werfen/Immucor. B. ORT for Ortho. |
| 5 | At the “Lot Number” prompt, type the lot number from the reagent and press the tab key. |
| 6 | At the “Item(s)” prompt, type the mnemonic that corresponds to the reagent being entered. If more than one reagent has the same lot number (such as with Surgiscreen or Confidence), type each of the mnemonics separated by a comma. A. A1 Cell = A1CELL B. Albumin = ALBU C. Anti-A = ANTIA D. Anti-A,B = ANTIAB E. Anti-B = ANTIB F. Anti-D = ANTID G. B Cell = BCELL H. Confidence Kit = CONF1,CONF2,CONFAB,CNF I. Diluent 2 = DIL2 J. Anti-IgG Gel Card = IGGGEL K. Surgiscreen = SURSC1,SURSC2,SURSC3,SURSCN |
| 7 | Select the lot number to inactivate (the one being taken out of use) or select “New Shipment” from the pop-up menu. |
| 8 | Press tab to bypass the procedure(s) prompt. |
| 9 | At the “Received Date” prompt, type the date on which the reagent/shipment was received in the lab from the Product Received Log and press tab . |
| 10 | At the “Active Date” prompt, type T for today and press the tab key. |
| 11 | Press tab to bypass the “Inactive Date” prompt. |
| 12 | At the “Expiration Date” prompt, type the expiration date of the reagent. |

| Step | Action |
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| 13 | At the "Quantity" prompt, type the quantity of reagent received from the Product Received Log. |
| 14 | Press tab to bypass the notes section. |
| 15 | Highlight Accept and press enter to save the lot. |
| 16 | When performing QC, you must enter the new lot next to the reagent name on the "Rack Lot Association" screen to officially put the reagent into use. |
| 17 | Document the date on which the new lot/shipment of reagent was placed into use on the Product Received Log. |

Out of Range Quality Control

| Step | Action |
|------|--|
| 1 | DO NOT report patient results if the quality control result is out of acceptable range. |
| 2 | Use problem solving techniques to determine the cause of unacceptable quality control. Correct problems as noted. Techniques include, but are not limited to, the following: A. Verify that the procedure was followed as written. B. Check reagents or control materials for deterioration. C. Verify the proper amount of reagent/control was used for testing. D. Verify instrument function, if applicable. E. Verify that reagents were at room temperature (18-30°C or other temperature defined by the manufacturer) when quality control was performed. |
| 3 | Repeat quality control once corrective action has been performed or potential issues have been ruled out. You only need to repeat QC on the reagents that failed. It may be necessary to reanalyze the failed run or other specimens run since the last acceptable QC results were obtained to ensure results are accurate and reliable. |
| 4 | Add a comment that documents the following: A. Evaluation of problem B. Corrective action taken to resolve the situation C. Impact on patient results |

Downtime Process

| Step | Action |
|------|--|
| 1 | Obtain a copy of the "FWMC Downtime Blood Bank Quality Control" form. |
| 2 | Record the date on which QC was performed and the tech completing QC in the designated spots. |
| 3 | Record the lot number and expiration date of each reagent that will be quality controlled on the form. A. Verify the expiration date of each reagent has not been exceeded. B. Discard expired reagents and any reagents that will expire within 24 hours of quality control procedure. C. Discard reagents that will run out during the day. D. Replace discarded reagents with new bottles. |
| 4 | Visually inspect all reagents for evidence of contamination or deterioration (marked turbidity or precipitation of antisera, hemolysis of red cells). A. Document the appearance of each reagent on the downtime form. a. Document S if the reagent has a satisfactory appearance. b. Document U if the reagent has an unsatisfactory appearance. B. Replace reagents with an unsatisfactory appearance. a. Do not use reagents with an unsatisfactory appearance for patient testing. b. Write a PI/Variance to document the reagent problem. |
| 5 | Follow the instructions above to set up QC. Document results on the downtime form. |
| 6 | Determine whether quality control results are acceptable by comparing the results obtained to the expected values for each tube. Document the QC interpretation by circling Pass or Fail on the downtime form. |
| 7 | Enter QC in Sunquest when the computer system is operational. Sunquest will not allow staff to backdate QC. If QC was performed on downtime and it was not entered on the same calendar day it was performed, add a comment indicating QC was performed on downtime and retroactively entered into Sunquest. A. Enter QC per procedure above. B. At the "Accept, Modify, Reject, Comment" prompt, select Comment . C. Enter the comment and press the F1 key to save. D. At the "Command" prompt, type E to enter and save. E. At the "Save and Exit: Are you sure?" prompt, type Y and enter to save. F. The screen will return to the Accept, Modify, Reject prompt. Accept the results to save. |
| 8 | Document the tech code of the person that entered the results and the date of entry on the downtime form. |

| Step | Action |
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| 9 | File the completed form in the Blood Bank QC Manual. |

QC Verification

| Step | Action |
|------|---|
| 1 | Dayshift is responsible for verifying the QC results. This must be done at the beginning of the shift. |
| 2 | <p>Access the QC results in Sunquest.</p> <ul style="list-style-type: none"> A. Access Sunquest SmarTerm function QCR. B. Select printer 0 to print on screen. C. Select option 7, Rack Result Report. D. At the "Lab ID" prompt, type FWBB. E. At the "Modify, Accept, Reject" prompt, select M to modify the date. F. Enter the desired Start Date and End Date and press enter until you get to the "Modify, Accept, Reject" prompt. G. Select A to accept. |
| 3 | <p>The report will print on the screen.</p> <ul style="list-style-type: none"> A. Verify that QC has been performed. B. Verify that results are acceptable. C. Verify none of the expiration dates have been exceeded or will be exceeded before QC is run again. |
| 4 | QC must be performed/repeated if any discrepancies are noted. Patient impact must be assessed. Notify the supervisor immediately if patient impact was identified. |

Weekly QC Review

| Step | Action |
|------|--|
| 1 | The group lead or designee is responsible for reviewing QC results weekly. |
| 2 | <p>Access the QC results in Sunquest.</p> <ul style="list-style-type: none"> A. Access Sunquest SmarTerm function QCR for QC reports. B. Select option 7. Rack Result Report. C. At the "Lab ID" prompt, type FWBB. D. At the "Modify, Accept, Reject" prompt, you can accept the default or modify to change the date range. |

| Step | Action |
|------|--|
| 3 | <p>The QC results that were performed and documented during the timeframe selected will appear on the screen. Review the results to ensure the following:</p> <ul style="list-style-type: none"> A. QC was performed each day on which patients were tested. B. QC results were within acceptable limits. C. If outliers are noted, <ul style="list-style-type: none"> a. Verify the appropriate corrective actions and patient impact are documented. b. Verify that QC was repeated and found acceptable before patient testing was performed. D. If a new lot or shipment of reagent was placed into use, ensure it was properly quality controlled prior to patient testing and documented on the product received log. |
| 4 | Document weekly QC review on the Daily Reports and Tasks Form. |

Expected Results

| Step | Action | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------------|--|------|-----------------|---|------------|---|------------|---|------------|---|---|---|---|---|---|---|---|---|------------|---|------------|----|------------|----|---|----|---|--|----------------|------------------------------------|---|
| 1 | <table border="1"> <thead> <tr> <th colspan="2">Daily Quality Control</th></tr> <tr> <th>Tube</th><th>Expected Result</th></tr> </thead> <tbody> <tr><td>1</td><td>2+, 3+, 4+</td></tr> <tr><td>2</td><td>2+, 3+, 4+</td></tr> <tr><td>3</td><td>2+, 3+, 4+</td></tr> <tr><td>4</td><td>0</td></tr> <tr><td>5</td><td>0</td></tr> <tr><td>6</td><td>0</td></tr> <tr><td>7</td><td>0</td></tr> <tr><td>8</td><td>2+, 3+, 4+</td></tr> <tr><td>9</td><td>2+, 3+, 4+</td></tr> <tr><td>10</td><td>2+, 3+, 4+</td></tr> <tr><td>11</td><td>0</td></tr> <tr><td>12</td><td>0</td></tr> <tr><td>Confidence Ab Gel (microtubes 1, 2, & 3)</td><td>1+, 2+, 3+, 4+</td></tr> <tr><td>Albumin Gel (microtubes 1, 2, & 3)</td><td>0</td></tr> </tbody> </table> | Daily Quality Control | | Tube | Expected Result | 1 | 2+, 3+, 4+ | 2 | 2+, 3+, 4+ | 3 | 2+, 3+, 4+ | 4 | 0 | 5 | 0 | 6 | 0 | 7 | 0 | 8 | 2+, 3+, 4+ | 9 | 2+, 3+, 4+ | 10 | 2+, 3+, 4+ | 11 | 0 | 12 | 0 | Confidence Ab Gel (microtubes 1, 2, & 3) | 1+, 2+, 3+, 4+ | Albumin Gel (microtubes 1, 2, & 3) | 0 |
| Daily Quality Control | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tube | Expected Result | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2+, 3+, 4+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2+, 3+, 4+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2+, 3+, 4+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 2+, 3+, 4+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2+, 3+, 4+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 2+, 3+, 4+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Confidence Ab Gel (microtubes 1, 2, & 3) | 1+, 2+, 3+, 4+ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Albumin Gel (microtubes 1, 2, & 3) | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

6. RELATED DOCUMENTS

SOP: Blood Bank Reaction Grading

SOP: Blood Bank Reagents and Controls Policy

Form: FWMC Downtime Blood Bank Quality Control Form (AG.F48)

Form: Daily Reports and Tasks Form (AG.F129)

7. REFERENCES

Ortho Confidence System Manufacturer's Instructions, Pub No J65523_EN, version e631209724. Ortho Clinical Diagnostics. Raritan, New Jersey.

8. REVISION HISTORY

| Version | Date | Reason for Revision | Revised By | Approved By |
|---------|---------|--|------------|-------------|
| 1 | 7/18/24 | Section 5: Added "General Notes"; Revised QC process; added "Downtime Process"; added "Weekly QC review"; Revised "Expected results". Section 9: Added Appendix A | S Codina | S Beltaifa |
| 2 | 8/2/24 | Added the "Reagent Receipt Process." | SCodina | SBeltaifa |
| 3 | 3/21/25 | Added QC Verification section. | SCodina | SBeltaifa |
| | | | | |

9. ADDENDA AND APPENDICES

Appendix A—Quality Control Modifier Codes

Appendix A

Quality Control Modifier Codes

| Code | Translation |
|------|---|
| AC10 | Patient testing suspended |
| AC28 | Reagent change lookback not indicated (No patients tested since last acceptable QC) |
| AC29 | Reagent change lookback performed and acceptable |
| AC34 | Test/assay repeated QC in range |
| AC39 | Reagent repeat with fresh reagent failed, patient testing suspended |
| NPTR | No patient run between last successful and failed QC run, lookback not indicated |
| R21 | Notified supervisor |