| TITLE: **ANTIGEN PLUS – VALIDATION** | FILE: **SOP-VALIDATION 8.5.docx** |
| Revised for Version 8.5 | EFFECTIVE DATE: September 14, 20018 |

1.0   PRINCIPLE

Antigen Plus is a software program designed to store and select red cells for antibody identification testing, by phenotype. Antigen Plus Version 8.5 is a medical device under the provisions of the FDA, 510(k) clearance number BK11045.

In order to be used as a tool by an immunohematology reference laboratory or transfusion service, the program must be validated to function as stated in the users' manual after it is installed. All validation testing scenarios will be performed by any medical technician experienced in antibody identification.

Testing will be done in a database created for that purpose. This database will be maintained as long as the program is in use, but will not be used once validation is completed. All patient data saved in the database will not use actual patient names or identifiers. For instructions on creating a database for validation, consult «Antigen Plus 8.5 Installation and Configuration » or contact customerservice@antigenplus.com for a Cloud installation.

2.0   SCOPE/RELATED POLICIES

The scope of this validation plan is to assure that the program performs to specification in the laboratory setting. SOPs will be developed to guide the use of the program and the required maintenance plan. The program will be available to all blood bank or reference laboratory technologists, including staff rotating through the special testing areas.

3.0   SPECIMEN

N/A

4.0   MATERIALS

A minimum of 50 different RBC samples from commercial suppliers. The mix should consist of:
5 commercial red cell panels and 3 screening cell panels from any supplier used by the lab is to be downloaded electronically from a website and stored on the end user's system. One panel should be out of date.

Validation Lots supplied electronically by Antigen Plus.

5.0   SAFETY

Compliance with Laboratory Quality Practices: Bloodborne Pathogens Employee Exposure Control Plan.

6.0   RECORDS/FORMS/DOCUMENTS

User testing documentation of program activities will consist of select cell panels and panels printed by lot number to be compared with the corresponding antigram provided by the panel supplier. The results of all validation testing will be printed directly from Antigen Plus.

Screen capture pictures will be printed to demonstrate warning flags and necessary screen information.

7.0   QUALITY CONTROL

N/A

8.0   PROCEDURE

The following is a list of functions that must be validated before being used by the laboratory staff to create select cell panels and evaluate test results. Test case scenarios will be developed to cover the following:

1. Verification of user log-in and permission status
2. Entry of all electronic information of all RBCs as they are received by the lab must be shown to contain the correct donor#, lot #, supplier and expiration date after entering the program database.
3. Out of stock designation assigned when a cell has been used to exhaustion or as they are discarded must be shown to not be presented on a selected cell panel with the out-of-stock cell or appearing in the lot # printout.
4. Deletion of individual cell information that has not been saved with any patient identifier to correct an incorrect entry or if a sample will never again be available to the lab must be shown to remove the cell's phenotype information.
5. Deletion of a panel not used in a saved work-up by lot # must be shown to delete every cell listed in the lot #.
6. Cell selection by phenotype must be shown to be consistent.
7. Print functions must be shown to provide the correct information.
8. Out-of-date function must apply itself automatically when required.
9. For those labs entering their own cells, program must be shown to maintain correlation between Wiener phenotypes and Rh antigen typing as described in the user manual.
10. Test the save function by reloading the panel and compare printouts.
11. Show that the program can differentiate between frozen inventory and liquid inventory by selected searches.
12. Using test panels provided, verify that result columns accurately rule out the appropriate antigens.

9.0   Initial Settings in Options

From the Options Menu, check to see that these are your settings in System Options

Check to see that these are your settings in Customize result columns

Check to see that these are your settings in Exclusion criteria

Scenario 1
- ◆ Following directions in the User's Guide create user accounts with passwords to cover all permission levels.
- ◆ Log in and out changing users from the Switch User command in the User menu. Return to original user log-in with administrator level

Scenario 2
- ◆ Download a 10+ cell commercial lot from each of the commercial suppliers that you use* until you have 5 panels including one panel that is out of date. Do the same for 3 screen cell lots.
    - ▪ * If you use or plan to use Immucor panels, check the SUT box when downloading and select some additional antigens from the list to include on your download. When doing the line-by-line comparison of the data, check against the SUT sheet from Immucor to make sure your selections have been added in the proper places. You may delete one of these lots and download it again with different criteria to double check.
- ◆ In the **Add/Edit screen**, select a lot in the Lot Number box and use the **print lot profile** function on the **lot** drop menu to print a copy of each lot added to the database.
- ◆ Do a line-by-line comparison of the data on the printout compared to the data in the antigram from the supplier.
- ◆ Document any variations. Sign and date the Antigen Plus copy once it contains exactly the same information as the antigram. Keep both copies as user testing documentation.

Scenario 3
- ◆ From the Add screen select a cell and mark it out of stock. Note the donor and lot number of the marked cell. Click on the Save button.
- ◆ Select the Search screen and enter the donor number—verify that it is not found. Clear the donor number and enter the lot number—verify that the out-of-stock cell is not among the cells found in the lot.
- ◆ Select the Add screen. Locate the out-of-stock cell and verify that it is marked out-of-stock in red.
- ◆ In Systems Options, change the settings to include out-of-stock in searches.
- ◆ Tab to the Search screen and enter the donor number—verify that it is found

Scenario 4

◆   On the Add/Edit screen select a donor number from the donor drop box that appears only once in the list.
◆   Bring up the cell information and do a print screen for the record.
◆   Delete the cell from inventory.
◆   Drop the donor drop box and type in the deleted donor number and open the list box. The list should show that the number is not there and no information will populate the Add/Edit screen.
◆   Do a print screen to confirm this for documentation.

Scenario 5

◆   On the Search screen select a lot number from the lot # drop box. Click Select all and choose View Selected Cells from the Panel menu. Print the Selected panel. Then click Clear All Selected Cells.
◆   Select that lot on the Add Screen. Delete the lot using the Delete Lot button on the bottom of the screen.
◆   Drop the lot # drop box and type in the deleted lot number and open the list box. The list should show that the number is not there and no information will populate the Add/Edit screen.
◆   Do a print screen to confirm this for documentation.
◆   Using the select cell panel printed in the first step, try to select at least 2 of the cells on the panel by donor number and confirm that they are no longer in the inventory attached to that lot number.

Scenario 6

◆   Use the following : a)C+, K-, Js(a-), 2 examples; b) D-,K+, Js(a-), 2 examples; c) C-, K-, Js(a-), 2 examples; to construct a select cell panel. Select the first 2 cells presented with each request. Save the panel with the name Sc6-1. Print the selected panel. Clear all selected cells. Go through the process again and name the panel Sc6-2.
◆   When both panels are printed, do a line-by-line examination to ensure that the program presented the same 6 cells in the same order and that they match the requirements set.
◆   Clear all selected cells and search criteria

Scenario 7

◆   From the Systems Options menu, select Antigen Display Order for Search, select Biotest, and using one of the previous select cells panels from Scenario 6, go to the Results panel through the File drop box. Add 0 for a negative result in all the IAT column boxes for the 9 cells selected and then select Print at the top of the screen.
◆   Repeat this printout 6 times by returning to the Options menu and selecting Antigen Display Order numbers for the other commercial suppliers, and returning to the Results Worksheet and selecting Print at the top of the screen.
◆   Compare the printed copy to the information on the screen. Note any discrepancies.
◆   From the Add/Edit screen, drop the lot # drop box and select one of the lot numbers on the Results Worksheet. Use the print lot # panel on the File drop box list to print this panel.

◆ Compare the cell data between the Results Worksheet printout and the lot # printout.
◆ Document any inconsistencies.
◆ Clear all selected cells and search criteria

Scenario 8
◆ In the search screen, select an out of date panel from the list of lot #s.
◆ Verify that upon selection of an out of date cell or cells, the Review Selected Cells screen appears and click Review on one cell
◆ From the Cell testing History screen, drop down the list of antigens to retest, check one or more and save changes, verify that these antigens now appear in the Antigens Retested list
◆ Print the selected cells and note the OOD designation in the far left column. Go back to **the search screen** and **clear selected cells** when this step is complete.
◆ Select the same panel again and verify that the retesting changes you made have been maintained with today's date.
◆ From the **Add/edit screen**, change the expiration date on the panel to one that is now in date. From the **search screen,** print the selected cells either from the Preview Selected Cells button or by opening the Selected Cells Worksheet in the Panel menu. Compare the first printout to the second one and look to see if the OOD designation no longer appears on every cell of the "date-altered" panel.
◆ Save all printouts and document any inconsistency.
◆ Clear all selected cells and search criteria

Scenario 9—NECESSARY ONLY FOR LABS THAT WILL MANUALLY ENTER THEIR OWN CELLS
◆ Using the Add/edit screen, clear the page as if to enter a new cell. Go to the Rh-Hr drop box and select a Weiner phenotype. Check to see if the antigen typing results that appear are correct for the phenotype selected.
◆ Create cell entries starting with RH1 through RH36 with a common lot number to prove that all the Weiner phenotypes produce the correct cell typings in the Rh-Hr section of the common typings.
◆ Change one of the RhHr antigens from positive to negative and click on save. Verify that a pop up stating that the phenotype has been cleared appears.
◆ Print the panel by lot number and review for any discrepancies including checking for the absence of a Phenotype designation in the cell you changed. Document findings.

Scenario 10
◆ On the search screen choose Select/Add Patient and enter name, dob, and identification number for a patient, then select Add.
◆ Verify that patient name and number appear on the search screen.
◆ Create a selected panel (e.g. to exclude Anti-E) that includes one expired cell
◆ When the expired cell is selected, choose Review and select and save one of the relevant antigens.
◆ Click on Panel and open the Selected Cells worksheet and save the panel using the **save selected panel.** Type "Panel 1" in the Full Panel Description box, and save with

the panel number 1. Close the window and open the Results Worksheet from the Panel Menu and print it.

◆ Verify that the Results Worksheet contains the patient name and number and the attributed panel description.

◆ On the search screen, select **clear selected cells**. The number of cells selected at the bottom of the Search screen should now read 0. Do print screen to document.

◆ Go to the panel menu, drop the box and select **load saved panel**. Choose the panel saved and double click on the highlighted panel. The number of cells selected at the bottom of the Search screen should now read the same as contained in the panel printout from the first step.

◆ Print out the screen and document any unexpected findings.

◆ On the search screen, select clear selected cells and search criteria, then repeat the steps above using a new patient name, dob, and identification number and saving the panel with the number 2.

◆ Clear all selected cells and search criteria

◆ Select any of the cells used in the saved panel on the Add Screen and attempt to delete it. Verify that the delete is blocked with information about where that cell has been used.

Scenario 11

◆ Change the status of one of the 3-cell panels in stock from liquid to frozen by using the frozen button on the Add/edit screen (find the lot on the search screen, click on a cell phenotype on the screen and switch to Add/Edit screen—check to see if the lot number matches and if not drop the donor number list and select the instance of that donor with the correct lot number). Each cell must be changed individually. Save the change.

◆ Go to the Search screen and do a search for frozen cells only. The entire lot # of cells frozen should be presented for selection.

◆ Select them all and print the select cell panel resulting from the search. All cells should be marked FZN. No other cells should be presented in the search.

◆ Switch to the Results panel and print a copy. All cells in the Results Worksheet should still carry the FZN designation in the far left column.

◆ Document any inconsistencies

◆ Clear all selected cells and search criteria

Scenario 12

◆ Search for a red cell lot and select it by clicking on "Select All Matches." Clear the search criteria.

◆ Search for a cell that is negative for E and C and select the oldest one (at the bottom of the Search grid).

◆ Open the Results worksheet from the Panel Menu. Assume you are testing a patient positive for E and C and enter the appropriate results

◆ Select File/Save Panel from the top menu

◆ Select a patient (enter a new patient as in Scenario 10)

◆   Enter 11 for a panel number and Save
◆   Print and then Exit the Results Worksheet and click "Clear Selected Cells"
◆   Select Exclusion Criteria from the Options menus. Change the default criteria to the following:
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◆

◆   Select Load Saved Panel from the Panel menu and load Panel 11.
◆   Click on the red text "old exclusion criteria"
◆   Click on "update' in the Exclusion Criteria box that appears
◆   Print the resulting worksheet and compare the exclusions to the print out from the earlier print out. Verify that the rule-outs are the same, but the exclusions are now based on more rule-outs.
◆   Select more cells to allow an exclusion to occur on an antigen that had only been ruled out once. Save the panel. Print the resulting panel and verify.
◆   Clear all selected cells and search criteria

Scenario 13
◆   From Load Saved Panel, highlight panel number 11
◆   Click duplicate
◆   Exit the Selected Panel screen and open the Results worksheet
◆   Print the Results worksheet and verify that the printed panel is identical to the earlier print out for Panel number 11 except that there are no results in the new panel.
◆   Clear all selected cells and search criteria
◆   From Load Saved Panel, highlight panel number 11
◆   Click duplicate with fresh cells
◆   Print the Results worksheet and verify that the printed panel contains some new cells with phenotypes substantially identical to older ones the earlier print out for Panel number 11
◆   Clear all selected cells and search criteria

Scenario 14
◆   Select a panel of cells, keeping track of which cells you select in order. Be sure to select some cells from the same lot (but not selected in sequence) and cells with different expiration dates including some that are out of date.
◆   Print the Selected Cell worksheet.
◆   Open the Results worksheet and select the View Menu
◆   Choose By Expiration Date
◆   Observe the changed order of the cells that are now in date then lot then vial order
◆   Print the Selected cells worksheet to confirm.

Scenario 15
◆ Select a lot number that appears on the print out for saved panel 11 and find it on the Maintain Lots screen.
◆ Attempt to delete that lot
◆ Verify that you may not delete a lot that has been used in saved work.

Scenario 16
◆ Log out and back in as a full user.
◆ From the Panel menu load saved panel 11 and review it
◆ Confirm that after review, no results can be entered then uncheck review
◆ Enter results in column A and check technologist change in the View menu
◆ Review the panel
◆ Save the panel and print the results worksheet
◆ Verify that the review appears in Panel History and that prior iterations can be called up from there
◆ Clear selected cells

Scenario 17
◆ Log out and back in as an administrator.
◆ From the Panel menu load saved panel 11 and add second review.
◆ Save the panel
◆ Verify that both reviews appears in Panel History
◆ Confirm that after review, no results can be entered then uncheck review
◆ Clear selected cells
◆ From the Panel menu load saved panel 11 and uncheck both reviews
◆ Right click on each of the columns labeled A, B, C, or D and remove them
◆ Right Click on the ENZ column and edit the column by adding a description (e.g. Ficin)
◆ Right click on the DTT column and add an IAT column with not check cell labeled LIS
◆ Add a few results in the LIS column and save the panel.
◆ Print the worksheet to confirm that all the new entries appear on the print out
◆ Verify that the old reviewed panel appears in Panel History and that it can be called up from there
◆ Clear selected cells
◆ From the Options menu, select Customize result columns and set up columns for the way your lab generally tests (unevaluated columns with no check cells for Spin etc., columns without check cells for gel and so on).
◆ Select a lot with a search and open the Results worksheet to verify that the columns you set up have been established
◆ Select Panel 11 from Load Panel menu—follow the prompt to discard current work
◆ Verify that the columns for Panel 11 are the way they were before
◆ Clear all selected cells and search criteria

Scenario 18
◆ Log out and back in as a read-only user

◆ Confirm that you have read only ability by attempting save selected cells
◆ Log out and back in as a save panels user
◆ Confirm that you cannot review a saved panel, but can save one—check Panel History to verify.

Scenario 19
◆ While logged in as a save panels user
◆ Verify from system Options that you can view but are unable to change Exclusion Criteria
◆ Verify that you are unable to open "Customize result columns"
◆ Select a lot from the lot number drop down and select all cells
◆ Open the Results worksheet
◆ Confirm that the result columns conform to the specifications that you entered in Scenario 17
◆ Enter some random results
◆ Confirm that you are unable to review the panel
◆ Enter a new patient and save the panel with the number that appears in the panel number box
◆ Clear all selected cells and search criteria
◆ Log out and log back in as a full user

Scenario 20
◆ From Load Saved Panel, select panel number 11
◆ Open the Results worksheet and confirm from the View menu that all the histories conform to the work you have done on this panel up to now. Record any inconsistencies.
◆ From the Save Panel menu enter the conclusion of Anti-E and Anti-C and save the panel
◆ Confirm that the Conclusion now appears on the screen with the patient
◆ Right click on the patient name and select view patient details
◆ Click on edit and enter phenotype details in the array
◆ Type Phenotype in the reason box and Save
◆ Confirm that the phenotype criteria now appear n the Auto control row
◆ Close the Results worksheet and confirm that the patient phenotype appears under the patients name on the screen
◆ Clear all selected cells and search criteria

Scenario 21

◆ This installation disk (or Validation database in the Cloud version) contains sample lots for validation testing. These are the same lots used for our internal unit testing, and are carefully selected to exercise all parts of the evaluation code. Every release of the software has these steps performed automatically.
◆ In the Options Menu change the Exclusion criteria to the default settings
◆ In the Options Menu Customize Result columns by deleting all columns except the IAT and removing the check cell requirement from that remaining column.

◆ To use these files:
◆ Use the File > Import Data command in Antigen Plus to import the .PNL files in this folder
◆ Search for one of the lots by name, select all cells, and open the Results Worksheet from the Panel menu.
◆ Enter the same test results in Antigen Plus that you see in corresponding Test Panel image reproduced below (pp 12-31).
◆ Verify that the rule-out counts and evaluation text are the same as in the image.
◆ Close the Results Worksheet and clear the selected cells.
◆ Repeat steps 2-6 for the other lots up to #27.
◆ Change your exclusion criteria to 4 for P1 and Xga and 2 for all the others and then enter the pictured results for #28.
◆ Change your exclusion criteria to

Exclusion criteria

Specify the minimum number of rule-outs needed to exclude each antigen. These minimums must meet or exceed current Antigen Plus standards (3 rule outs for P1 and Xga, and 1 rule-out for other antigens taking dosage into account). Antigen Plus standards are based on AABB standards and best practices.

These settings apply only to newly created panels. Older panels will continue using the standards in effect at the time they were created.

Rh-Hr								Kell						Duffy		Kidd		Lewis		P	MN				Luth		Sex
D	C	E	c	e	Cʷ	f	V	K	k	Kpª	Kpᵇ	Jsª	Jsᵇ	Fyª	Fyᵇ	Jkª	Jkᵇ	Leª	Leᵇ	P1	M	N	S	s	Luª	Luᵇ	Xgª
2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2	3	2	2	2	2	2	2	3

Restore defaults   OK   Cancel

◆ Repeat steps 2-6.

Scenario 22

◆ The except for the final one, checks performed in Scenario 21 are based on the minimum exclusion criteria available to Antigen Plus. Keeping the current Options/Exclusion Criteria select the test panel Panel 10—Anti_E_K_Fya_IAT and enter the same results. Note that the S is no longer excluded and has changed to orange on the single dose exclusion row. Go back to then search screen and select a cell that is negative for E, Cw, K, Fya, Jka, and positive for S and negative for s (if you don't have such a cell it is currently available in Immucor lots 04113 and 39327, BioTest lot 805011 or Ortho lot 8RA24349 all of which are currently downloadable—or you can create such a test cell on the Add screen). Select that cell, go back to the worksheet and enter a negative result. Big S should no longer be orange and will be excluded. You may repeat this kind of scenario with as many panel and results as you like, but one is sufficient to show that the program functions are working.

INTERPRETATION

Acceptable result criteria:

1. There will be no difference between the supplier antigram and the program printout by lot # once the panel has been transferred electronically into the Antigen Plus database.
2. Once marked out-of-stock, the cell(s) should not appear in a Search or on the panel printed by lot number.
3. Once deleted, there should be no record of the donor # in the program.
4. Once deleted, there should be no record of the panel lot # in the program.
5. Donors or lots saved with a patient may not be deleted but may be marked out-of-stock
6. All identical data should be reproduced in exactly the same manner and contain identical information if selected in exactly the same manner.
7. Cell information must be identical whether the cell appears on a lot # panel or on a Result panel. All print functions should print the information required in the correct format and there must be no altering of data between formats.
8. The out-of-date designation will appear when appropriate and be noted on the results panel and on the Search screen.
9. All Weiner phenotypes will produce the correct antigen types when selected (for manual data entry only).
10. The data in the original printout and the data in the printout produced from the same panel being saved and reloaded will be identical.
11. Only frozen cells will appear in the search results and the printout will carry the FZN designation for each frozen cell. The results panel used to test these cells will also show the FZN designation.
12. The Evaluations must be correct according to the Exclusion Policy located under Help. Specifically, there may be no exclusions of -K under DTT testing, and no exclusion of -Fy^a under ENZ testing.
13. The Evaluations must show that for Scenario 13, in the first printout K, Kp^a and Js^a were properly ruled out and accurately counted, and that in the second printout none of these were ruled out.
14. All patient data will be maintained with saved panels
15. Only an administrator can remove someone else's review or edit patient data.
16. Testing history is be maintained by user and date accessible in the Results Worksheet View Menu under Technologists and Panel History
17. All test panel results should agree with the images provided.

11.0   RESULT REPORTING

All documentation produced by the validation scenarios will be saved as part of the program's validation record.

12.0   LIMITATIONS

As with any software program, it is only as good as the staff that maintains it. Maintenance is critical to the function of the program.

A hazard analysis will be developed based on all information gained while performing the program validation in the laboratory setting.

12.0   REFERENCES

AABB Technical Manual, 17th Edition, (ch 16: pg 470-1)

Standards for Immunohematology Reference Laboratories, 6th edition. Bethesda, MD: The data in the original printout and the data in the printout produced from the same panel being saved and reloaded will be identical.

Standards for Blood Banks and Transfusion Services, 26th edition. Bethesda, MD: American Association of Blood Banks, 2009.

User's Manual, Version 8, Antigen Plus. Rowny Systems Inc. Gaithersburg, MD: 2013.

_____   _____ _____
                                                                        DATE

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                                                                        DATE

_____   _____

DATE

DATE

Signatures on file

WORK RECORD

PERFORMED BY   DATE

REVIEWED   DATE

ACCEPTED BY   DATE

SIGNATURES ON FILE.

Test Panel 1-- All Negative

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT	A	DTT	Enz
1	Validation AllNegative	Donor80 #1	+	+	0	0	+	0		0	0	+	0	+	0	+	0	+	0	+	0	0	+	0	+	0	+	0			0	0	0	0
2	Validation AllNegative	Donor81 #2	+	+	0	0	+	+		0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	+			0	0	0	0
3	Validation AllNegative	Donor82 #3	+	0	+	+	0	0		0	0	+	0	+	0	+	0	+	+	+	0	+	0	+	0	+	0	+	+			0	0	0	0
4	Validation AllNegative	Donor83 #4	+	0	0	+	+	0	+	0	+	0	+	0	+	0	0	+	0	0	+	+	0	+	0	0	+	0			0	0	0	0
5	Validation AllNegative	Donor84 #5	0	+	0	+	+	0		0	0	+	0	+	0	+	0	+	+	+	0	+	0	+	0	+	+	0			0	0	0	0
6	Validation AllNegative	Donor85 #6	0	0	+	+	+	0		0	0	+	0	+	0	+	0	+	0	+	0	+	+	+	0	+	0	+			0	0	0	0
7	Validation AllNegative	Donor86 #7	0	0	0	+	+	0		0	+	+	0	+	0	+	0	+	0	0	+	+	+	0	+	0	+	+			0	0	0	0
8	Validation AllNegative	Donor87 #8	0	0	+	+	+	0		0	0	+	0	+	0	+	0	+	+	+	0	0	+	0	+	0	+	0			0	0	0	0
9	Validation AllNegative	Donor88 #9	0	0	0	+	+	0		0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	+			0	0	0	0
10	Validation AllNegative	Donor89 #10	+	+	0	0	+	0		0	+	+	0	+	0	+	0	+	+	+	0	+	+	+	0	+	0	+			0	0	0	0
11	Validation AllNegative	Donor90 #11	+	0	+	+	+	0		0	0	+	0	+	0	+	0	0	+	+	+	0	+	+	0	+	0	+	+			0	0	0	0
	Auto Control																																		

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose		6	3	1	7	8	1	0	1	0	9	0	11	0	11	3	6	2	3	5	6	9	3	3	1	7	0	10	7
Heterozygous Rule Outs	Single Dose		0	0							2		0		0											0		1		

Evaluation:

No exclusion yet   No exclusion possible

The following have insufficient negative reactions to exclude by your rules: f, Kpa, Jsa
Column IAT: can not exclude f, Kpa, Jsa
Column A: can not exclude f, Kpa, Jsa
Column DTT: can not exclude f, K, k, Kpa, Kpb, Jsa, Jsb, Lua, Lub
Column Enz: can not exclude f, Kpa, Jsa, Fya, Fyb, M, N, S, s, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 2-- All Negative 2

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT	A	DTT	Enz
1	Validation AllNegative2	Donor91 #1	+	0	+	+	0	0		0	0	+	+	+	0	+	+	+	+	+	0	+	0	+	0	0	+	0			0	0	0	0
2	Validation AllNegative2	Donor92 #2	+	0	0	+	+	0	+	0	+	0	+	0	+	+	0	0	+	0	0	+	0	+	0	+	0	+	+			0	0	0	0
	Auto Control																																		

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose		2	0	1	2	1	0	1	1	0	2	0	1	0	1	0	0	1	0	1	0	2	1	1	1	0	2	1
Heterozygous Rule Outs	Single Dose		0	0							0		1		1		0		0				0			0		0	

Evaluation:

No exclusion yet   No exclusion possible

The following have insufficient negative reactions to exclude by your rules: C, Cw, K, Fya, Fyb, Jkb, Leb, P1, Lua, Xga
Column IAT: can not exclude C, Cw, K, Fya, Fyb, Jkb, Leb, P1, Lua, Xga
Column A: can not exclude C, Cw, K, Fya, Fyb, Jkb, Leb, P1, Lua, Xga
Column DTT: can not exclude C, Cw, K, k, Kpa, Kpb, Jsa, Jsb, Fya, Fyb, Jkb, Leb, P1, Lua, Lub, Xga
Column Enz: can not exclude C, Cw, K, Fya, Fyb, Jkb, Leb, P1, M, N, S, s, Lua, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 3-- All Negative 3

Selected Panel Test Results

File   View   Patient   Help

Specimen #: |

Panel AllNegative3

Select/Add Patient...

Review 1
Review 2

Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT	A	DTT	Enz
1	Validation AllNegative3	Donor93 #1	+	+	0	0	+	0			0	0	+	0	+	0	+	0	+	+	0	+	0	0	0	+	0	+	0	+	0		0	0	0	0
2	Validation AllNegative3	Donor94 #2	+	+	0	0	+	+			0	0	+	0	+	0	+	0	0	0	+	0	+	0	+	+	+	+	0	+	+		0	0	0	0
3	Validation AllNegative3	Donor95 #3	+	0	+	+	0	0			0	0	+	0	+	0	+	0	+	+	+	0	+	+	0	+	0	+	+	+	+		0	0	0	0
4	Validation AllNegative3	Donor96 #4	+	0	0	+	+	0		+	0	+	0	+	0	+	0	0	0	+	0	0	+	+	+	0	+	0	0	+	0		0	0	0	0
5	Validation AllNegative3	Donor97 #5	0	+	0	+	+	0			0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	+	0	0		0	0	0	0
6	Validation AllNegative3	Donor98 #6	0	0	+	+	+	0			0	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+		0	0	0	0
7	Validation AllNegative3	Donor99 #7	0	0	0	+	+	0		0	+	+	0	+	0	+	0	+	0	+	0	0	+	+	+	+	0	+	0	+	+		0	0	0	0
8	Validation AllNegative3	Donor100 #8	0	0	0	+	+	0			0	0	+	0	+	0	+	+	0	+	+	+	0	0	0	+	+	0	+	0			0	0	0	0
9	Validation AllNegative3	Donor101 #9	0	0	0	+	+	0			0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	+		0	0	0	0
10	Validation AllNegative3	Donor102 #10	+	+	0	0	+	0		0	+	+	0	+	0	+	0	+	+	+	0	+	+	+	+	0	+	0	+	+			0	0	0	0
11	Validation AllNegative3	Donor103 #11	+	0	+	+	+	0			0	0	+	0	+	0	+	0	0	+	+	+	0	+	+	0	+	+	0	+	+		0	0	0	0
12	Validation AllNegative3	Donor104 #12	+	0	+	+	0	0			0	0	+	+	+	0	+	+	+	+	+	0	+	+	0	+	0	0	+	0			0	0	0	0
13	Validation AllNegative3	Donor105 #13	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	+		0	0	0	0

Auto Control

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose		8	3	2	9	9	1	1	2	0	11	0	12	0	12	3	6	3	6	6	11	4	4	2	8	0	0	12	8
Heterozygous Rule Outs	Single Dose			0	0							2		1		1	0		0		0			0		0		1		

Evaluation:

☐ No exclusion yet   ☐ No exclusion possible

No specificity detected. Review sample identification and patient history. Retest if required.

Test Panel 4—AllPosAutoPos

Selected Panel Test Results

File   View   Patient   Help

Specimen #: _____

☐ Review 1
☐ Review 2

Panel AllPosAutoPos

Select/Add Patient...

Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation AllPosAutoPos	Donor186 #1	+	+	0	0	+	0		0	0	+	0	+	0	+	+	0	+	0	+	0	0	0	+	0	+	0	+	0		1+
2	Validation AllPosAutoPos	Donor187 #2	+	+	0	0	+	+		0	0	+	0	+	0	+	0	0	+	0	+	0	0	+	+	+	0	+	0	+		1+
3	Validation AllPosAutoPos	Donor188 #3	+	0	+	0	0	0		0	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	+	+		1+
4	Validation AllPosAutoPos	Donor189 #4	+	0	0	+	+	0		+	0	+	0	+	0	+	0	0	+	0	0	+	+	+	0	+	0	0	+	0		1+
5	Validation AllPosAutoPos	Donor190 #5	0	+	0	+	+	0		0	0	+	0	+	0	+	0	+	+	0	+	0	+	+	0	+	+	0	+	0		1+
6	Validation AllPosAutoPos	Donor191 #6	0	0	+	+	+	0		0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	+	0	0	+	+		1+
7	Validation AllPosAutoPos	Donor192 #7	0	0	0	+	+	0		0	+	+	0	+	0	+	0	+	0	+	0	0	+	+	+	0	+	0	+	+		1+
8	Validation AllPosAutoPos	Donor193 #8	0	0	0	+	+	0		0	0	+	0	+	0	+	+	0	+	+	0	0	+	0	+	0	+	0	+	0		1+
9	Validation AllPosAutoPos	Donor194 #9	0	0	0	+	+	0		0	0	+	0	+	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	+		1+
10	Validation AllPosAutoPos	Donor195 #10	+	+	0	+	0	0		0	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	0		1+
11	Validation AllPosAutoPos	Donor196 #11	+	0	+	+	0	0		+	0	+	0	+	0	+	0	0	+	0	+	0	+	+	0	+	0	+	0	+		1+
	Auto Control																														2+

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterozygous Rule Outs	Single Dose			0	0						0		0		0		0		0		0			0		0		0	

☐ No exclusion yet   ☐ No exclusion possible

Evaluation:
The following have insufficient negative reactions to exclude by your rules: D, C, E, c, e, Cw, f, V, K, k, Kpa, Kpb, Jsa, Jsb, Fya, Fyb, Jka, Jkb, Lea, Leb, P1, M, N, S, s, Lua, Lub, Xga
NO ANTIGENS CAN BE RULED OUT AS ALL CELLS TESTED
ARE REACTIVE WITH THE PATIENT'S PLASMA. SEE TECH
TIPS FOR FURTHER TESTING SUGGESTIONS.
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.
Auto Control Warning: Possible autoantibody present.
Do DAT to determine if sensitization occurred in vivo or in vitro.

Test Panel 5—AllPositive

Selected Panel Test Results

File   View   Patient   Help

Specimen #: _____

☐ Review 1
☐ Review 2

Article I.

Panel AllPositive

Select/Add Patient...

Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation AllPositive	Donor69 #1	+	+	+	0	+	0		0	0	+	0	+	0	+	+	0	+	0	+	0	0	0	+	0	0	+	+		2+
2	Validation AllPositive	Donor70 #2	+	+	0	0	+	+		0	0	+	0	+	0	+	0	0	+	0	+	0	+	+	+	0	+	+	+		2+
3	Validation AllPositive	Donor71 #3	+	0	+	0	0	0		0	0	+	0	+	0	+	+	0	0	+	0	+	0	+	0	+	0	+	+		2+
4	Validation AllPositive	Donor72 #4	+	0	0	+	+	0		0	0	+	0	+	+	0	0	0	0	+	+	+	0	+	0		2+
5	Validation AllPositive	Donor73 #5	0	+	0	+	+	0		0	+	+	0	+	0	+	0	+	0	0	+	+	+	0	+	0	0	+	+		2+
6	Validation AllPositive	Donor74 #6	0	0	+	+	+	0		0	+	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	+		2+
7	Validation AllPositive	Donor75 #7	0	0	0	+	+	0		0	+	+	0	+	0	+	0	+	0	+	+	+	+	0	+	+		2+
8	Validation AllPositive	Donor76 #8	0	0	0	+	+	0		0	0	+	0	+	0	+	0	+	0	+	+	+	+	+	+	0		2+
9	Validation AllPositive	Donor77 #9	0	0	+	+	0		+	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	0		2+
10	Validation AllPositive	Donor78 #10	0	0	+	+	0		0	0	+	0	+	0	+	+	0	+	0	0	+	+	+	0	+	+		2+
11	Validation AllPositive	Donor79 #11	+	0	0	+	+	0		0	0	+	0	+	0	+	0	+	+	0	+	+	0	+	+		2+
	Auto Control																														

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterozygous Rule Outs	Single Dose			0	0						0		0		0		0		0		0			0		0		0	

☐ No exclusion yet   ☐ No exclusion possible

Evaluation:
The following have insufficient negative reactions to exclude by your rules: D, C, E, c, e, Cw, f, V, K, k, Kpa, Kpb, Jsa, Jsb, Fya, Fyb, Jka, Jkb, Lea, Leb, P1, M, N, S, s, Lua, Lub, Xga
NO ANTIGENS CAN BE RULED OUT AS ALL CELLS TESTED
ARE REACTIVE WITH THE PATIENT'S PLASMA. SEE TECH
TIPS FOR FURTHER TESTING SUGGESTIONS.
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 6—Anti_D

Selected Panel Test Results

File　View　Patient　Help

Specimen #: [   ]　　　　　　　　　　　　　　　　☐ Review 1

Panel Anti_D　　　　　　　　　　　　　　　　　　　　　☐ Review 2

[Select/Add Patient…]　　　　　　　　　　　　Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation Anti_D	Donor15 #1	+	+	0	0	+	+			0	0	+	0	+	0	0	+	0	+	0	+	+	0	+	0	+	0	+	+		2+
2	Validation Anti_D	Donor16 #2	0	0	0	+	+	0		0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	+	0	+	0		0
3	Validation Anti_D	Donor17 #3	+	+	0	0	+	+			0	+	+	0	+	0	+	0	+	0	+	+	+	0	0	+	0	+	0			2+
4	Validation Anti_D	Donor18 #4	+	0	+	+	0	0			0	0	+	0	+	0	0	+	0	+	+	0	0	+	+	+	+	0	+	+		2+
5	Validation Anti_D	Donor19 #5	0	0	0	+	+	0		0	0	+	+	+	0	+	w	+	0	0	+	0	+	+	+	0	0	+	0			0
6	Validation Anti_D	Donor20 #6	0	0	0	+	+	0		0	+	+	0	+	0	+	+	0	+	+	0	+	0	+	+	0	+	+	0			0
7	Validation Anti_D	Donor21 #7	0	+	0	+	+	0	+	0	0	+	0	+	0	+	+	+	+	+	0	+	0	+	0	+	+	0	+	0		0
8	Validation Anti_D	Donor22 #8	0	0	+	+	+	0	+	0	0	0	+	0	+		+	0	0	+	0	0	0	s	+	0	0	+	0	+	+		0
9	Validation Anti_D	Donor23 #9	0	0	0	+	+	0	+	0	0	0	+	0	+		+	+	0	+	0	0	+	+	0	+	0	0	+	+		0
10	Validation Anti_D	Donor24 #10	0	+	0	+	+	0	+	0	0	+	0		0	+	+	+	+	0	+	w	+	+	0	+	0	+	0			0
11	Validation Anti_D	Donor25 #11	0	0	+	+	+	0	+	0	+	0		0	0	+	0	+	0	+	+	+	0	0	+	0	+	0				0
12	Validation Anti_D	Donor26 #12	0	0	0	+	+	0		+	0	+	0	+	+	+	+	+	0	+	+	+	0	+	+	0	+	0	+	0		0
	Auto Control																																

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose		0	0	0	7	7	0	5	1	0	7	0	8	0	6	3	1	4	2	4	4	8	4	2	3	4	0	8	3
Heterozygous Rule Outs	Single Dose			2	2						2		1		1		0	0	0		0			0	0			1		

Evaluation: ☐ No exclusion yet　☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: D, Cw
Column IAT: can not exclude D, Cw
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 7—Anti_E_Cw_gel

Selected Panel Test Results

File View Patient Help

Specimen #: _____

Panel Anti_E_Cw_Gel

Select/Add Patient…

☐ Review 1
☐ Review 2

Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	A
1	Validation Anti_E_Cw_Gel	Donor172 #1	+	+	0	0	+	+		0	0	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	+		3+
2	Validation Anti_E_Cw_Gel	Donor173 #2	+	0	+	+	0	0			0	+	+	0	+	0	+	+	+	+	0	0	0	+	+	+	+	+	+	0		4+
3	Validation Anti_E_Cw_Gel	Donor174 #3	+	+	0	+	+	0	+	0		+	0	+	0	+	+	0	+	0	0	0	+	0	+	+	+	+	+	+		0
4	Validation Anti_E_Cw_Gel	Donor175 #4	0	0	0	+	+	0	+	0	0	+	0	+	0	+	+	+	+	+	+	0	+	+	+	+	+		+	+		0
5	Validation Anti_E_Cw_Gel	Donor176 #5	+	+	0	+	+	+	+	0	+	0	0	+	0	+	+	+	+	0	0	+	0	0	+	0	+	+	+	+		3+
6	Validation Anti_E_Cw_Gel	Donor177 #6	+	+	0	0	+	0	0	0	0	+	+	0	0	+	+	+	+	+	0	+	+	+	+	+	+	0	+	+		0
7	Validation Anti_E_Cw_Gel	Donor178 #7	+	0	+	+	0	0	0	0	+	+	0	0	+	+	+	+	+	0	+	0	+	+	+	+	0	+	+		4+
8	Validation Anti_E_Cw_Gel	Donor179 #8	+	+	0	0	+	+	0	0	0	0	0	0	+	+	0	0	0	+	0	0	0	0	0	+	0	+	0	+	+		3+
9	Validation Anti_E_Cw_Gel	Donor180 #9	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	+		0
10	Validation Anti_E_Cw_Gel	Donor181 #10	0	0	0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	0	0	+	+	0	+	0	+	+		0
11	Validation Anti_E_Cw_Gel	Donor182 #11	0	0	+	+	+	0	+	0	+	0	0	+	0	+	0	+	0	0	+	0	+	+	+	+	0	+	+	+		3+
12	Validation Anti_E_Cw_Gel	Donor183 #12	+	+	0	0	+	0		0	+	+	0	+	0	+	+	0	+	0	+	0	+	+	+	+	0	+	0	+	+		0
13	Validation Anti_E_Cw_Gel	Donor184 #13	+	+	+	+	+	0		0	0	+	0	+	0	+	+	+	0	+	+	0	+	0	0	+	+	+	+	0	+		3+
14	Validation Anti_E_Cw_Gel	Donor185 #14	+	+	0	0	+	0		0	+	+	0	+	0	+	+	+	+	0	+	0	0	+	0	+	0	0	+	+		0
	Auto Control																															

		D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose	5	3	0	3	7	0	4	1	0	3	1	6	0	6	1	2	3	2	3	3	4	1	1	1	3	0	5	7
Heterozygous Rule Outs	Single Dose		0	0						3		0		1		0		0		0			0		0		1		

Evaluation:
☐ No exclusion yet ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: E, Cw
Column A: can not exclude E, Cw
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 8—Anti_E_K_Fya DTT

Selected Panel Test Results

File   View   Patient   Help

Specimen #: |

☐ Review 1

Panel Anti_E_K_Fya_DTT

☐ Review 2

Select/Add Patient...

Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	DTT
			Rh-Hr								Kell						Duffy		Kidd		Lewis		P	MN				Luth		Sex		
1	Validation Anti_E_K_Fya_DTT	Donor55 #1	+	0	+	+	0	0		0	0	0	+	0	+	0	+	0	+	0	+	+	0	0	+	+	+	+	0	+	+		2+
2	Validation Anti_E_K_Fya_DTT	Donor56 #2	+	+	0	0	0	+	0		0	0	+	0	+	0	+	0	+	+	+	+	0	+	+	0	+	0	0	+	+		0
3	Validation Anti_E_K_Fya_DTT	Donor57 #3	+	0	+	+	0	0		0	+	+	0	+	0	+	+	+	+	0	0	0	+	+	+	+	+	+	+	0		2+
4	Validation Anti_E_K_Fya_DTT	Donor58 #4	+	+	0	0	+	+		0	0	+	0	+	0	+	+	0	0	+	+	0	0	+	+	+	0	0	+	+		2+
5	Validation Anti_E_K_Fya_DTT	Donor59 #5	0	0	0	+	+	0		0	0	+	+	+	0	+	0	+	+	0	0	+	+	0	+	0	+	0	+	+		0
6	Validation Anti_E_K_Fya_DTT	Donor60 #6	0	0	0	+	+	0		0	+	+	0	+	0	+	0	+	+	+	+	0	+	+	+	+	0	0	+	0		0
7	Validation Anti_E_K_Fya_DTT	Donor61 #7	+	0	+	+	0	0		0	0	+	0	+	0	+	0	+	+	0	0	+	+	0	+	+	0	0	+	0		2+
8	Validation Anti_E_K_Fya_DTT	Donor62 #8	+	+	0	+	+	0		0	0	+	+	+	0	+	+	0	+	0	0	0	+	+	0	+	0	0	+	0		2+
9	Validation Anti_E_K_Fya_DTT	Donor63 #9	+	+	0	0	+	0		0	0	+	0	+	0	+	+	0	0	+	0	+	0	0	+	0	+	0	+	+		2+
10	Validation Anti_E_K_Fya_DTT	Donor64 #10	+	0	+	+	0	0		0	0	+	0	+	0	+	0	+	+	0	0	+	+	0	+	0	+	0	+	0		2+
11	Validation Anti_E_K_Fya_DTT	Donor65 #11	0	0	0	+	+	0		0	+	+	0	+	0	+	0	+	+	+	+	0	0	0	+	0	+	0	+	+		0
12	Validation Anti_E_K_Fya_DTT	Donor66 #12	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	+		0
13	Validation Anti_E_K_Fya_DTT	Donor67 #13	0	0	0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	0	0	+	+	0	+	0	+	+		0
14	Validation Anti_E_K_Fya_DTT	Donor68 #14	0	0	0	+	+	0	+	0	0	+	0	+	0	+	0	+	+	0	+	0	s	+	+	0	+	+	+	+		0
	Auto Control																															

		D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
		Rh-Hr								Kell						Duffy		Kidd		Lewis		P	MN				Luth		Sex
Homozygous Rule Outs	Double Dose	2	1	0	6	7	0	3	1	0	0	0	0	0	0	0	6	3	1	5	1	5	1	3	2	5	0	0	6
Heterozygous Rule Outs	Single Dose		0	0						0		0		0		0		0		0			0		0		0		

Evaluation:

☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: E, Cw, K, k, Kpa, Kpb, Jsa, Jsb, Fya, Lua, Lub
Column DTT: can not exclude E, Cw, K, k, Kpa, Kpb, Jsa, Jsb, Fya, Lua, Lub
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 9—Anti_E_K_Fya_Enz

Selected Panel Test Results

File   View   Patient   Help

Specimen #: [ ]   ☐ Review 1
Panel Anti_E_K_Fya_Enz   ☐ Review 2
[Select/Add Patient...] | Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	Enz
1	Validation Anti_E_K_Fya_Enz	Donor41 #1	+	0	+	+	0	0			0	+	0	+	0	+	0	+	0	+	+	0	0	+	+	+	+	0	+	+		2+
2	Validation Anti_E_K_Fya_Enz	Donor42 #2	+	+	0	0	+	0			0	0	+	0	+	0	0	+	+	+	+	0	+	+	0	+	0	0	+	+		0
3	Validation Anti_E_K_Fya_Enz	Donor43 #3	+	0	+	+	0	0			+	+	0	+	0	+	+	+	+	0	0	0	+	+	+	+	+	+	+	0		2+
4	Validation Anti_E_K_Fya_Enz	Donor44 #4	+	+	0	0	+	+			0	0	+	0	+	0	+	0	0	+	+	0	0	+	+	+	0	0	+	+		0
5	Validation Anti_E_K_Fya_Enz	Donor45 #5	0	0	0	+	+	0			0	0	+	+	+	0	0	+	+	0	0	+	+	0	+	0	+	0	+	+		0
6	Validation Anti_E_K_Fya_Enz	Donor46 #6	0	0	0	+	+	0			+	+	0	+	0	+	0	+	+	+	+	0	+	+	+	+	0	0	+	0		2+
7	Validation Anti_E_K_Fya_Enz	Donor47 #7	+	0	+	+	0	0			0	+	0	+	0	+	0	+	0	0	+	0	0	+	0	+	0	0	+	0		2+
8	Validation Anti_E_K_Fya_Enz	Donor48 #8	+	+	0	+	+	0			0	0	+	+	+	0	+	0	0	+	+	+	+	+	0	+	0	0	+	0		0
9	Validation Anti_E_K_Fya_Enz	Donor49 #9	+	+	0	0	+	0			0	+	0	+	0	+	+	0	0	+	0	+	0	0	+	0	+	0	+	+		0
10	Validation Anti_E_K_Fya_Enz	Donor50 #10	+	0	+	+	0	0			0	0	+	0	+	0	+	0	+	0	0	+	0	+	+	0	+	0	+	0		2+
11	Validation Anti_E_K_Fya_Enz	Donor51 #11	0	0	0	+	+	0			+	+	0	+	0	+	0	+	+	+	+	0	0	0	+	0	+	0	+	+		2+
12	Validation Anti_E_K_Fya_Enz	Donor52 #12	+	0	0	+	+	0	+	+	0	0	+	+	+	0	0	0	+	0	0	0	0	+	0	+	0	0	+	+		0
13	Validation Anti_E_K_Fya_Enz	Donor53 #13	0	0	0	+	e	0	+	0	+	+	0	+	0	+	0	+	0	+	+	0	0	+	0	+	0	0	+	+		2+
14	Validation Anti_E_K_Fya_Enz	Donor54 #14	0	0	0	+	+	0	+	0	0	+	0	+	0	+	0	+	+	0	+	0	s	+	+	0	+	+	+	+		0
	Auto Control																															

		D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
Homozygous Rule Outs	Double Dose	5	3	0	3	7	1	2	1	0	7	0	5	0	6	0	0	4	2	3	3	5	0	0	0	0	0	6	0
Heterozygous Rule Outs	Single Dose		0	0						0			2		1	0		0					0	0			1		

Evaluation:

☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: E, K, Fya, Fyb, M, N, S, s, Xga.
Column Enz: can not exclude E, K, Fya, Fyb, M, N, S, s, Xga.
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 10—Anti_E_K_Fya_IAT

Selected Panel Test Results

File   View   Patient   Help

Specimen #: _____   ☐ Review 1

Panel Anti_E_K_Fya_IAT   ☐ Review 2

[Select/Add Patient...]   Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
			Rh-Hr								Kell						Duffy		Kidd		Lewis		P	MN				Luth		Sex		
1	Validation Anti_E_K_Fya_IAT	Donor27 #1	+	0	+	+	0	0			0	0	+	0	+	0	0	+	0	+	+	0	0	+	+	+	+	0	+	+		2+
2	Validation Anti_E_K_Fya_IAT	Donor28 #2	+	+	0	0	+	0			0	0	+	0	+	0	0	+	+	+	+	0	+	+	0	+	0	0	+	+		0
3	Validation Anti_E_K_Fya_IAT	Donor29 #3	+	0	+	+	0	0			0	+	+	0	+	0	+	+	+	0	0	0	+	+	+	+	+	+	+	0		3+
4	Validation Anti_E_K_Fya_IAT	Donor30 #4	+	+	0	0	+	+			0	0	+	0	+	0	+	0	0	+	+	0	0	+	+	+	0	0	+	+		2+
5	Validation Anti_E_K_Fya_IAT	Donor31 #5	0	0	0	+	+	0			0	0	+	+	+	0	0	+	0	+	0	0	+	0	+	0	+	0	+	+		0
6	Validation Anti_E_K_Fya_IAT	Donor32 #6	0	0	0	+	+	0			0	+	+	0	+	0	0	+	+	+	+	0	0	+	+	+	+	0	+	0		2+
7	Validation Anti_E_K_Fya_IAT	Donor33 #7	+	0	+	+	0	0			0	0	+	0	+	0	0	+	+	0	0	+	0	+	0	+	0	0	+	0		2+
8	Validation Anti_E_K_Fya_IAT	Donor34 #8	+	+	0	+	+	0			0	0	+	+	+	0	+	0	+	0	0	+	+	0	+	0	0	+	0			2+
9	Validation Anti_E_K_Fya_IAT	Donor35 #9	+	+	0	0	+	0			0	0	+	0	+	0	+	0	0	+	0	+	0	0	+	0	+	0	+	+		2+
10	Validation Anti_E_K_Fya_IAT	Donor36 #10	+	0	+	+	0	0			0	0	+	0	+	0	0	+	0	+	0	0	+	+	0	+	0	0	+	0		2+
11	Validation Anti_E_K_Fya_IAT	Donor37 #11	0	0	0	+	+	0			0	+	+	0	+	0	+	0	+	+	+	0	0	0	+	0	+	0	+	+		2+
12	Validation Anti_E_K_Fya_IAT	Donor38 #12	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	+		0
13	Validation Anti_E_K_Fya_IAT	Donor39 #13	0	0	0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	0	0	+	+	0	+	0	+	+		2+
14	Validation Anti_E_K_Fya_IAT	Donor40 #14	0	0	0	+	+	0	+	0	0	+	0	+	0	+	0	+	+	0	+	0	s	+	+	0	+	+	+	+		0
	Auto Control																															

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
			Rh-Hr								Kell						Duffy		Kidd		Lewis		P	MN				Luth		Sex
Homozygous Rule Outs	Double Dose		2	1	0	3	4	0	2	1	0	4	0	3	0	3	0	3	3	0	2	1	4	1	2	1	3	0	3	4
Heterozygous Rule Outs	Single Dose			0	0						0		1		1		0		0		0			0		0		1		

Evaluation:

☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: E, Cw, K, Fya, Jkb
Column IAT: can not exclude E, Cw, K, Fya, Jkb
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 11—Anti_Jka

Selected Panel Test Results

File   View   Patient   Help

Specimen #: _____

☐ Review 1
☐ Review 2

Panel Anti_Jka

[Select/Add Patient...]

Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	IAT
1	Validation Anti_Jka	Donor221 #1	+	+	0	0	+	+			0	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	+		0
2	Validation Anti_Jka	Donor222 #2	+	0	+	+	0	0			0	0	+	+	0	+	+	+	+	+	+	0	+	0	+	0	0	0	+	0		0
3	Validation Anti_Jka	Donor223 #3	0	0	0	+	+	0		0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	+	0	+	0		3+
4	Validation Anti_Jka	Donor224 #4	+	+	0	0	+	+		0	+	+	0	+	0	+	+	0	+	+	0	+	+	0	0	+	0	+	0			0
5	Validation Anti_Jka	Donor225 #5	+	+	0	+	+	0	+	0		+	0	+	0	+	+	+	0	0	0	+	0	+	+	+	+	+	+	+		3+
6	Validation Anti_Jka	Donor226 #6	+	0	+	+	0	0			0	+	0	+	0	+	0	+	+	0	0	0	+	0	+	0	+	0	+	0		3+
7	Validation Anti_Jka	Donor227 #7	+	+	0	0	+	+	0	0	0	0	+	0	+	+	0	0	0	+	0	0	0	0	+	0	+	0	+	+		0
8	Validation Anti_Jka	Donor228 #8	+	0	0	+	+	0	+	0	0	+	0	+	+	0	0	0	0	+	0	+	+	+	+	0	0	+	+			0
9	Validation Anti_Jka	Donor229 #9	+	0	+	+	0	0	0	+	0	0	+	0	+	0	+	0	+	+	0	+	+	+	0	+	+	0	+			0
10	Validation Anti_Jka	Donor230 #10	+	+	0	0	+	0		0	+	+	0	+	0	+	0	+	0	+	0	+	+	+	0	+	0	0	+	0		0
11	Validation Anti_Jka	Donor231 #11	+	0	+	+	0	0		0	0	+	+	+	0	+	+	0	+	0	+	+	+	+	+	+	+	+	0		0
	Auto Control																																0

			D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
Homozygous Rule Outs	Double Dose		8	4	3	4	5	3	1	1	1	5	0	6	2	6	1	3	1	5	2	5	7	3	2	3	4	1	6	4
Heterozygous Rule Outs	Single Dose			0	0							2		2		0		0		0		0			0		0		1	

Evaluation: ☐ No exclusion yet   ☐ No exclusion possible

No specificity detected. Further testing required.
See tech tips for further testing suggestions.
Review patient history.

Test Panel 12—Anti_Jka_S

Screenshot: Selected Panel Test Results — Panel Anti_Jka_S

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation Anti_Jka_S	Donor1 #1	+	0	+	+	0	0			0	0	+	0	+	0	+	0	+	0	+	+	0	0	+	+	+	+	0	+	+		1+
2	Validation Anti_Jka_S	Donor2 #2	+	+	0	0	+	+			0	0	+	0	+	0	+	+	0	0	+	+	0	0	+	+	+	0	0	+	+		2+
3	Validation Anti_Jka_S	Donor3 #3	0	0	0	+	+	0			0	0	+	+	+	0	+	0	+	0	0	+	+	0	+	0	+	0	+	+		1+
4	Validation Anti_Jka_S	Donor4 #4	+	0	+	+	0	0			0	w	+	0	+	0	+	+	0	+	0	+	0	0	+	+	0	+	0	+	+		1+
5	Validation Anti_Jka_S	Donor5 #5	0	0	0	+	+	0			0	+	+	0	+	0	+	+	+	0	+	+	0	+	0	+	+	0	+	+	0		2+
6	Validation Anti_Jka_S	Donor6 #6	+	0	0	+	+	0	+	+	0	+	0		0		0	+	+	+	0	+	w	+	+	0	+	0	+	+		0
7	Validation Anti_Jka_S	Donor7 #7	+	0	0	+	0			0	0	+	+		0		+	+	0	+	0	+	0	0	0	+	0	+	+		0
8	Validation Anti_Jka_S	Donor8 #8	+	0	+	+	0	0			0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	+		0
9	Validation Anti_Jka_S	Donor9 #9	+	+	0	0	+	+	0	0	0	0	+	0	+	0	+	0	+	+	+	0	+	+	+	+	0	+	0	+	0		0
10	Validation Anti_Jka_S	Donor10 #10	0	0	+	+	+	0	+	0	+	0	+	0	+	0	+	+	+	0	+	+	0	+	+	0	0	+	0	+	+		0
11	Validation Anti_Jka_S	Donor11 #11	0	0	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0		0
12	Validation Anti_Jka_S	Donor12 #12	0	0	0	+	+	0		0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	+	+	+	0	+	+	+	0		0
13	Validation Anti_Jka_S	Donor13 #13	0	0	0	+	+	0	+	0	0	0	+	0	+	0	+	+	0	0	+	0	+	+	0	+	0	0	+	0	+	+		0
14	Validation Anti_Jka_S	Donor14 #14	+	0	0	+	+	0			0	+	0	+	+	+	+	0	0	0	+	0	+	0	+	+	+	+	0	+	0	+	+		0
	Auto Control																															

		D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose	5	2	1	7	7	1	4	1	0	7	0	8	0	8	1	5	0	7	1	8	7	3	1	0	9	0	8	6
Heterozygous Rule Outs	Single Dose		0	0						2		1		1		0		0		0			0		0		1		

Evaluation:

☐ No exclusion yet ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: Jka, S
Column IAT: can not exclude Jka, S
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 13—Anti_ K_DTT

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cʷ	f	V	K	k	Kpª	Kpᵇ	Jsª	Jsᵇ	Fyª	Fyᵇ	Jkª	Jkᵇ	Leª	Leᵇ	P1	M	N	S	s	Luª	Luᵇ	Xgª	Additional Antigens	DTT
1	Validation Anti_K_DTT	Donor128 #1	+	+	0	0	+	+		0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	+		0
2	Validation Anti_K_DTT	Donor129 #2	+	0	+	+	0	0		0	0	+	+	+	0	+	+	+	+	+	0	+	0	+	0	0	+	0		0
3	Validation Anti_K_DTT	Donor130 #3	0	0	0	+	+	0		0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	+	0	+	0		0
4	Validation Anti_K_DTT	Donor131 #4	+	+	+	+	+	+	0	0	0	+		+	0	+	0	+	+	0	0	+	+	0	+	+	+	0	+	0		0
5	Validation Anti_K_DTT	Donor132 #5	+	0	+	+	+	0	+	+	0	+	0	+		+	0	+	0	+	0	0	+	0	0	+	0	0	0		0
6	Validation Anti_K_DTT	Donor133 #6	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	+	+		0
7	Validation Anti_K_DTT	Donor134 #7	0	0	0	+	+	0	+	0	+	+	0		0		+	+	+	0	+	0	w	0	+	0	+	0	+	+		0
8	Validation Anti_K_DTT	Donor135 #8	+	+	0	0	+	0			+	+	0	+	0	+	0	+	+	0	+	0	+	+	+	0	+	0		0
9	Validation Anti_K_DTT	Donor136 #9	+	+	0	0	+	+		0	0	+	0	+	0	+	+	+	+	+	+	0	+	0	+	0	+	+	+	+		0
10	Validation Anti_K_DTT	Donor137 #10	+	0	+	+	0	0		0	+	+	0	+	0	+	0	+	+	0	0	+	0	+	0	+	0	0	+	0		0
11	Validation Anti_K_DTT	Donor138 #11	0	0	0	+	+	0		0	0	+	+	+	0	+	+	0	0	+	0	+	+	+	+	+	+	0	+	+		0
	Auto Control																															

			D	C	E	c	e	Cʷ	f	V	K	k	Kpª	Kpᵇ	Jsª	Jsᵇ	Fyª	Fyᵇ	Jkª	Jkᵇ	Leª	Leᵇ	P1	M	N	S	s	Luª	Luᵇ	Xgª
Homozygous Rule Outs	Double Dose		8	3	2	7	7	3	3	2	0	0	0	0	0	0	2	5	6	3	5	5	9	3	6	2	6	0	0	5
Heterozygous Rule Outs	Single Dose			0	0						0		0		0		0		0		0			0		0		0		

Evaluation:
The following have insufficient negative reactions to exclude by your rules: K, k, Kpa, Kpb, Jsa, Jsb, Lua, Lub
Column DTT: can not exclude K, k, Kpa, Kpb, Jsa, Jsb, Lua, Lub
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 14—Anti_ K_Enz

Selected Panel Test Results

File   View   Patient   Help

Specimen #: [   ]

☐ Review 1
☐ Review 2

Panel Anti_K_Enz

Click in Results Box to indicate test outcome.

[Select/Add Patient...]

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	Enz
1	Validation Anti_K_Enz	Donor117 #1	+	+	0	0	+	+		0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	+		0
2	Validation Anti_K_Enz	Donor118 #2	+	0	+	+	0	0		0	0	+	+	+	0	+	+	+	+	+	0	+	0	+	0	+	0	0	+	0		0
3	Validation Anti_K_Enz	Donor119 #3	0	0	0	+	+	0		0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	+	+	0	+	0		2+
4	Validation Anti_K_Enz	Donor120 #4	+	+	+	+	+	+	0	0	0	+		+	0	+	0	+	+	0	0	+	+	0	+	+	+	0	+	0		0
5	Validation Anti_K_Enz	Donor121 #5	+	0	+	+	+	0	+	+	0	+	0	+		+	0	+	0	+	0	+	0	+	0	0	+	0	0	0		0
6	Validation Anti_K_Enz	Donor122 #6	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	+		0
7	Validation Anti_K_Enz	Donor123 #7	0	0	0	+	+	0	+	0	+	+	0		0	0	+	+	+	0	+	0	w	0	+	0	+	0	+	+		2+
8	Validation Anti_K_Enz	Donor124 #8	+	+	0	0	+	0		0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0		2+
9	Validation Anti_K_Enz	Donor125 #9	+	+	0	0	+	+		0	0	+	0	+	0	+	0	+	+	+	+	+	0	+	0	+	0	+	+	+		0
10	Validation Anti_K_Enz	Donor126 #10	+	0	+	+	0	0		0	+	+	0	+	0	+	0	+	+	0	0	+	0	+	0	+	0	0	+	0		2+
11	Validation Anti_K_Enz	Donor127 #11	0	0	0	+	+	0		0	0	+	+	+	0	+	+	0	0	+	0	+	+	+	+	+	+	0	+	+		0
	Auto Control																															

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose		6	2	1	4	4	3	2	2	0	7	0	4	0	5	0	0	2	3	2	4	6	0	0	0	0	0	5	0
Heterozygous Rule Outs	Single Dose			0	0						0		2		1		0		0		0			0		0		1		

Evaluation:
☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: K, Fya, Fyb, M, N, S, s, Xga
Column Enz: can not exclude K, Fya, Fyb, M, N, S, s, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 15—Anti_ K_Fyb_DTT

Selected Panel Test Results

File   View   Patient   Help

Specimen #: _____

Panel Anti_K_Fyb_DTT

Select/Add Patient...

☐ Review 1
☐ Review 2

Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	Rh-Hr								Kell						Duffy		Kidd		Lewis		P	MN				Luth		Sex	Additional Antigens	DTT
			D	C	E	c	e	C^w	f	V	K	k	Kp^a	Kp^b	Js^a	Js^b	Fy^a	Fy^b	Jk^a	Jk^b	Le^a	Le^b	P1	M	N	S	s	Lu^a	Lu^b	Xg^a		
1	Validation Anti_K_Fyb_DTT	Donor161 #1	+	0	+	+	0	0		0	0	+	+	+	0	+	+	+	+	+	+	0	+	+	0	+	0	0	+	0		1+
2	Validation Anti_K_Fyb_DTT	Donor162 #2	+	0	+	+	0	0		0	+	+	0	+	0	+	+	+	+	0	0	0	+	+	+	+	+	+	+	0		1+
3	Validation Anti_K_Fyb_DTT	Donor163 #3	+	+	0	0	+	0		0	+	0	0	+	0	+	+	0	+	0	+	0	0	+	+	0	+	0	+	+		0
4	Validation Anti_K_Fyb_DTT	Donor164 #4	0	0	0	+	+	0		0	+	0	0	+	0	+	0	+	0	+	0	+	0	0	+	+	0	0	+	+		2+
5	Validation Anti_K_Fyb_DTT	Donor165 #5	+	+	0	+	+	+	0	+	0	0	+	0	+	+	+	0	0	+	0	0	+	0	+	+	+	+		1+
6	Validation Anti_K_Fyb_DTT	Donor166 #6	+	+	0	0	+	+		0	0	+	0	+	0	+	+	0	0	+	+	0	0	+	+	0	0	+	+		0
7	Validation Anti_K_Fyb_DTT	Donor167 #7	+	+	0	+	0		0	0	+	+	+	0	+	+	0	+	0	0	+	0	+	0	+	0	0	+	0		0
8	Validation Anti_K_Fyb_DTT	Donor168 #8	+	+	0	0	+	0		0	+	+	0	+	0	+	0	+	0	0	+	0	+	0	+	0	+	+	+		0
9	Validation Anti_K_Fyb_DTT	Donor169 #9	+	+	0	0	+	+	0	0	0	+	0	+		+	+	0	+	0	0	+	0	0	+	0	+	+	+		0
10	Validation Anti_K_Fyb_DTT	Donor170 #10	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	+		0
11	Validation Anti_K_Fyb_DTT	Donor171 #11	+	+	0	0	+	0		0	+	0	0	+	0	+	+	+	+	0	0	0	+	+	+	+	0	+	+		1+
	Auto Control																																

			Rh-Hr								Kell						Duffy		Kidd		Lewis		P	MN				Luth		Sex
			D	C	E	c	e	C^w	f	V	K	k	Kp^a	Kp^b	Js^a	Js^b	Fy^a	Fy^b	Jk^a	Jk^b	Le^a	Le^b	P1	M	N	S	s	Lu^a	Lu^b	Xg^a
Homozygous Rule Outs	Double Dose		6	4	0	1	6	2	1	1	0	0	0	0	0	0	5	0	4	2	2	3	2	1	3	2	4	0	0	5
Heterozygous Rule Outs	Single Dose			0	0						0		0		0		0		0		0			0		0		0		

Evaluation:

☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: E, K, k, Kpa, Kpb, Jsa, Jsb, Fyb, P1, Lua, Lub
Column DTT: can not exclude E, K, k, Kpa, Kpb, Jsa, Jsb, Fyb, P1, Lua, Lub
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 16—Anti_ K_Fyb_Enz

Selected Panel Test Results

File View Patient Help

Specimen #:

Panel Anti_K_Fyb_Enz

[ ] Review 1
[ ] Review 2

Select/Add Patient…

Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	Enz
1	Validation Anti_K_Fyb_Enz	Donor150 #1	+	0	+	+	0	0			0	+	+	+	0	+	+	+	+	+	0	+	0	+	0	+	0	0	+	0		3+
2	Validation Anti_K_Fyb_Enz	Donor151 #2	+	0	+	+	0	0			0	+	+	0	+	0	+	+	+	0	0	0	+	+	+	+	+	+	+	0		2+
3	Validation Anti_K_Fyb_Enz	Donor152 #3	+	+	0	0	+	0			0	+	0	0	+	0	+	0	+	0	0	0	+	+	0	+	0	+	+	+		0
4	Validation Anti_K_Fyb_Enz	Donor153 #4	0	0	0	+	+	0			0	+	0	0	+	0	0	+	0	+	0	+	0	0	+	+	0	0	+	+		0
5	Validation Anti_K_Fyb_Enz	Donor154 #5	+	+	0	+	+	+	+	0	0	+	0	0	+	0	+	+	+	0	0	+	0	0	+	0	+	+	+	+		0
6	Validation Anti_K_Fyb_Enz	Donor155 #6	+	+	0	0	+	+			0	0	+	0	+	0	+	0	0	+	+	0	0	+	+	+	0	0	+	+		3+
7	Validation Anti_K_Fyb_Enz	Donor156 #7	+	+	0	+	+	0			0	0	+	+	+	0	+	0	0	0	0	+	+	+	0	+	0	0	+	0		3+
8	Validation Anti_K_Fyb_Enz	Donor157 #8	+	+	0	0	+	0			0	0	+	0	+	0	+	0	0	+	0	+	0	0	+	0	+	0	+	+		3+
9	Validation Anti_K_Fyb_Enz	Donor158 #9	+	+	0	0	+	+	0	0	0	0	+	0	+		+	+	0	0	0	+	0	0	+	0	+	0	+	+		3+
10	Validation Anti_K_Fyb_Enz	Donor159 #10	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	+		3+
11	Validation Anti_K_Fyb_Enz	Donor160 #11	+	+	0	0	+	0			0	+	0	0	+	0	+	+	+	0	+	0	0	+	+	+	0	0	+	+		0
	Auto Control																															

			D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
	Homozygous Rule Outs	Double Dose	3	2	0	1	4	1	1	0	4	0	0	4	0	4	0	0	3	1	2	2	0	0	0	0	0	0	3	0
	Heterozygous Rule Outs	Single Dose		0	0						0		0		0		0		0				0		0				1	

Legend: ▢ No exclusion yet   ▢ No exclusion possible

Evaluation:
The following have insufficient negative reactions to exclude by your rules: E, V, k, Kpa, Jsa, Fya, Fyb, P1, M, N, S, s, Xga.
Column Enz: can not exclude E, V, k, Kpa, Jsa, Fya, Fyb, P1, M, N, S, s, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 17—Anti_ K_Fyb_IAT

Selected Panel Test Results

File   View   Patient   Help

Specimen #: [ ]

☐ Review 1
☐ Review 2

Panel Anti_K_Fyb_IAT

[Select/Add Patient...]

Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation Anti_K_Fyb_IAT	Donor139 #1	+	0	+	+	0	0			0	0	+	+	+	0	+	+	+	+	+	0	+	+	0	+	0	0	+	0		3+
2	Validation Anti_K_Fyb_IAT	Donor140 #2	+	0	+	+	0	0			0	+	+	0	+	0	+	+	+	+	0	0	0	+	+	+	+	+	+	0		2+
3	Validation Anti_K_Fyb_IAT	Donor141 #3	+	+	0	0	+	0			0	+	0	0	+	0	+	+	0	+	0	+	0	0	+	+	0	+	0	+		0
4	Validation Anti_K_Fyb_IAT	Donor142 #4	0	0	0	+	+	0			0	+	0	0	+	0	+	0	+	0	+	0	+	0	0	+	+	0	0	+	+		2+
5	Validation Anti_K_Fyb_IAT	Donor143 #5	+	+	0	+	+	+	+		0	+	0	0	+	0	+	+	+	+	0	0	+	0	0	+	0	+	+	+		1+
6	Validation Anti_K_Fyb_IAT	Donor144 #6	+	+	0	0	+	+			0	0	+	0	+	0	+	+	0	0	+	+	0	0	+	+	+	0	0	+	+		3+
7	Validation Anti_K_Fyb_IAT	Donor145 #7	+	+	0	+	+	0			0	0	+	+	+	0	+	+	0	+	0	0	+	0	+	+	0	+	0	0	+	0		3+
8	Validation Anti_K_Fyb_IAT	Donor146 #8	+	+	0	0	+	0			0	0	+	0	+	0	+	+	0	0	+	0	+	0	0	+	0	+	0	+	+		3+
9	Validation Anti_K_Fyb_IAT	Donor147 #9	+	+	0	0	+	+	0	0	0	+	0	+	+	0	+		+	+	0	0	+	0	0	+	0	+	0	+	+		3+
10	Validation Anti_K_Fyb_IAT	Donor148 #10	+	0	0	+	0	+	+		0	+	0	+	+	0	+	0	+	0	0	0	0	+	0	+	0	+	0	+	+		3+
11	Validation Anti_K_Fyb_IAT	Donor149 #11	+	+	0	0	+	0			0	+	0	0	+	0	+	+	+	+	0	+	0	0	+	+	+	+	0	+	+		1+
	Auto Control																															

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
Homozygous Rule Outs	Double Dose		1	1	0	0	1	0	0	0	1	0	0	1	0	1	1	0	1	0	1	0	0	0	0	0	1	0	1	1
Heterozygous Rule Outs	Single Dose				0	0		0				0	0		0		0		0	0		0			0		0		0	

Evaluation:

☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: E, c, Cw, f, V, k, Kpa, Jsa, Fyb, Jkb, Leb, P1, M, N, S, Lua, Xga

Column IAT: can not exclude E, c, Cw, f, V, k, Kpa, Jsa, Fyb, Jkb, Leb, P1, M, N, S, Lua, Xga

These are tentative rule-outs.

Additional confirmatory data based on your own criteria are recommended.

Test Panel 18—Anti_ K_IAT

Selected Panel Test Results

File   View   Patient   Help

Specimen #: [   ]

Panel Anti_K_IAT

[Select/Add Patient...]

☐ Review 1
☐ Review 2

Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation Anti_K_IAT	Donor106 #1	+	+	0	0	+	+			0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+		0
2	Validation Anti_K_IAT	Donor107 #2	+	0	+	+	0	0			0	0	+	+	0	+	+	+	+	+	0	+	+	+	0	+	0	0	+	0		0
3	Validation Anti_K_IAT	Donor108 #3	0	0	0	+	+	0		0	+	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+	0		2+
4	Validation Anti_K_IAT	Donor109 #4	+	+	+	+	+	+	0	0	0	+		+	0	+	0	+	+	0	0	+	+	0	+	+	0	+	+	0		0
5	Validation Anti_K_IAT	Donor110 #5	+	0	+	+	+	0	+	+	0	+	0	+		+	0	+	0	+	0	+	0	+	0	0	+	0	0	0		0
6	Validation Anti_K_IAT	Donor111 #6	+	0	0	+	+	0	+	+	0	+	0	+	+	+	0	0	+	0	0	0	+	0	+	0	+	0	+	+		0
7	Validation Anti_K_IAT	Donor112 #7	0	0	0	+	+	0	+	0	+	+	0		0		+	+	+	0	+	0	w	0	+	0	+	0	+	+		2+
8	Validation Anti_K_IAT	Donor113 #8	+	+	0	0	+	0			+	+	0	+	0	+	0	+	+	0	+	0	+	+	+	0	+	0	+	0		2+
9	Validation Anti_K_IAT	Donor114 #9	+	+	0	0	+	+			0	0	+	0	+	0	+	0	+	+	+	+	+	0	+	0	+	0	+	+		0
10	Validation Anti_K_IAT	Donor115 #10	+	0	+	+	0	0			+	+	0	+	0	+	0	+	+	0	0	+	0	+	0	+	0	0	+	0		2+
11	Validation Anti_K_IAT	Donor116 #11	0	0	0	+	+	0			0	0	+	+	+	0	+	+	0	0	+	0	+	+	+	+	+	0	+	+		0
11	Auto Control																															

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
	Homozygous Rule Outs	Double Dose	6	2	1	4	4	3	2	2	0	7	0	4	0	5	1	3	2	3	2	4	6	2	4	1	4	0	5	4
	Heterozygous Rule Outs	Single Dose		0	0						0		2		1		0		0		0			0	0		1			

Evaluation:

☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: K
Column IAT: can not exclude K
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 19—Anti_ S_Enz

Selected Panel Test Results

File   View   Patient   Help

Specimen #: _____   ☐ Review 1   ☐ Review 2

Panel Anti_S_Enz

[Select/Add Patient...]

Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	Enz
1	Validation Anti_S_Enz	Donor209 #1	+	+	0	0	+	+			0	+	+	0	+	0	+	0	+	+	0	+	+	+	0	0	+	0	+	0		0
2	Validation Anti_S_Enz	Donor210 #2	0	0	0	+	+	0			0	+	0	0	+	0	+	0	+	0	+	0	+	0	0	+	+	0	0	+	+		0
3	Validation Anti_S_Enz	Donor211 #3	+	+	0	0	+	0	0	0	0	+	+	0	0	+	+	+	+	+	0	+	+	+	+	+	+	0	+	+		0
4	Validation Anti_S_Enz	Donor212 #4	+	0	+	+	0	0	0	0	0	+	+	0	0	+	0	+	0	+	+	0	+	+	+	0	+	0	+	+		0
5	Validation Anti_S_Enz	Donor213 #5	+	+	0	0	+	+	0	0	0	+	0	+	+	0	0	0	+	0	0	0	0	+	0	+	0	+	+		0
6	Validation Anti_S_Enz	Donor214 #6	+	0	0	+	+	0			+	0	+	0	+	+	0	0	0	+	0	+	+	+	+	+	0	0	+	+		0
7	Validation Anti_S_Enz	Donor215 #7	0	0	0	+	+	0	+	0	0	+	0	+	0	+	+	+	+	+	+	0	+	+	+	0	+		+	+		0
8	Validation Anti_S_Enz	Donor216 #8	+	0	+	+	0	0	0	+	0	0	+	0	+	0	+	0	+	0	+	0	+	+	0	+	0	+	0	+		0
9	Validation Anti_S_Enz	Donor217 #9	0	0	0	+	+	0			0	0	+	+	+	0	+	0	+	0	0	+	+	0	+	0	+	0	+	+		0
10	Validation Anti_S_Enz	Donor218 #10	+	+	+	+	+	0			0	0	+	0	+	0	+	0	+	+	0	+	0	0	+	+	+	+	0	+		0
11	Validation Anti_S_Enz	Donor219 #11	+	0	+	+	0	0			0	0	+	0	+	0	+	+	0	0	+	+	0	+	+	0	0	+	0	+	0		0
12	Validation Anti_S_Enz	Donor220 #12	+	+	0	+	+	0	+	0	+	+	0		+	+	+	+	0	+	0	+	w	+	+	0	+	+	+	+		0
	Auto Control																															0

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
	Homozygous Rule Outs	Double Dose	9	3	3	7	8	2	3	1	2	8	2	9	2	9	0	0	2	5	4	7	9	0	0	0	0	2	8	0
	Heterozygous Rule Outs	Single Dose		0	0						2		1		1		0		0		0			0		0		1		

Evaluation:

☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: Fya, Fyb, M, N, S, s, Xga
Column Enz: can not exclude Fya, Fyb, M, N, S, s, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 20—Anti_ S_IAT

File   View   Patient   Help

Specimen #: [   ]   ☐ Review 1

Panel Anti_S_IAT   ☐ Review 2

[Select/Add Patient...]   Click in Results Box to indicate test outcome.

#	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation Anti_S_IAT	Donor197 #1	+	+	0	0	+	+		0	+	+	0	+	0	+	+	0	+	0	+	+	0	+	0	0	+	0	+	0		0
2	Validation Anti_S_IAT	Donor198 #2	0	0	0	+	+	0		0	+	0	0	+	0	+	0	+	0	+	0	+	0	0	+	**+**	0	0	+	+		3+
3	Validation Anti_S_IAT	Donor199 #3	+	+	0	0	+	0	0	0	0	+	+	0	0	+	+	0	+	+	0	+	+	+	+	**+**	0	+	0	+		2+
4	Validation Anti_S_IAT	Donor200 #4	+	0	+	+	0	0	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	0	+	+	+	+	0	+		0
5	Validation Anti_S_IAT	Donor201 #5	+	+	0	0	+	+	0	0	0	0	+	0	+	+	0	0	0	+	0	0	0	0	0	+	0	+	0	+		0
6	Validation Anti_S_IAT	Donor202 #6	+	0	0	+	+	0	+	0	0	0	+	0	+	+	0	0	0	0	+	0	+	+	+	**+**	0	0	+	+		3+
7	Validation Anti_S_IAT	Donor203 #7	0	0	0	+	+	0	+	0	0	0	+	0	+	0	+	+	+	+	+	+	0	+	+	0	+		+	+		0
8	Validation Anti_S_IAT	Donor204 #8	+	0	+	+	0	0	0	+	+	0	0	+	0	+	0	+	0	+	+	0	+	0	+	+	0	+	0	+		0
9	Validation Anti_S_IAT	Donor205 #9	0	0	0	+	+	0		0	0	+	+	+	0	+	0	+	+	0	0	+	0	+	0	+	0	+	0	+		0
10	Validation Anti_S_IAT	Donor206 #10	+	+	+	+	+	0		0	0	+	0	+	0	+	+	0	+	0	+	0	+	0	0	**+**	+	+	0	+		2+
11	Validation Anti_S_IAT	Donor207 #11	+	0	+	+	0	0		0	0	+	0	+	0	+	0	+	+	0	0	+	+	0	+	0	0	+	0	0		0
12	Validation Anti_S_IAT	Donor208 #12	+	+	0	+	+	0	+	0	+	+	0		+		+	+	+	+	0	+	w	+	+	0	+	+	+	+		0
	Auto Control																														0

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
	Homozygous Rule Outs	Double Dose	6	2	3	5	5	2	2	1	1	5	1	6	1	6	2	3	2	3	4	3	7	2	2	**0**	8	1	5	6
	Heterozygous Rule Outs	Single Dose			0	0					2		1		1		0		0		0			0		**0**		1		

Evaluation: ☐ No exclusion yet ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: S
Column IAT: can not exclude S
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 21—Anti_ U

Selected Panel Test Results

Specimen #: _____

Panel Anti_U

Select/Add Patient...

☐ Review 1
☐ Review 2

Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cᵂ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	IAT
1	Validation Anti_U	Donor232 #1	0	0	0	+	+	0		0	0	+	0	+	0	+	0	0	+	+	0	+	+	+	+	0	0	0	+	+		0
	Auto Control																															

		D	C	E	c	e	Cᵂ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
Homozygous Rule Outs	Double Dose	0	0	0	1	1	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1
Heterozygous Rule Outs	Single Dose		0	0				0		0		0		0		0		0		0			0		0		0	

Evaluation:
☐ No exclusion yet ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: D, C, E, Cw, f, V, K, Kpa, Jsa, Fya, Fyb, Jka, Jkb, Lea, P1, M, N, S, s, Lua, Xga
Column IAT: can not exclude D, C, E, Cw, f, V, K, Kpa, Jsa, Fya, Fyb, Jka, Jkb, Lea, P1, M, N, S, s, Lua, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 22—Anti_U_Absent

Selected Panel Test Results

Specimen #: _____

Panel Anti_U_Absent

Select/Add Patient...

☐ Review 1
☐ Review 2

Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cᵂ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	IAT
1	Validation Anti_U_Absent	Donor236 #1	0	0	0	+	+	0		0	0	+	0	+	0	+	0	0	+	+	0	+	+	+	+	0	0	0	+	+		0
2	Validation Anti_U_Absent	Donor237 #2	+	0	0	+	+	0		0	0	+	0	+	0	+	0	0	+	+	0	+	+	+	+	0	0	0	+	+		2+
3	Validation Anti_U_Absent	Donor238 #3	+	+	0	0	+	+		0	0	+	0	+	0	+	0	+	0	0	+	0	+	+	+	0	+	0	+	+		2+
	Auto Control																															

		D	C	E	c	e	Cᵂ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
Homozygous Rule Outs	Double Dose	0	0	0	1	1	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	1	1
Heterozygous Rule Outs	Single Dose		0	0				0		0		0		0		0		0		0			0		0		0	

Evaluation:
☐ No exclusion yet ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: D, C, E, Cw, f, V, K, Kpa, Jsa, Fya, Fyb, Jka, Jkb, Lea, P1, M, N, S, s, Lua, Xga
Column IAT: can not exclude D, C, E, Cw, f, V, K, Kpa, Jsa, Fya, Fyb, Jka, Jkb, Lea, P1, M, N, S, s, Lua, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 23—Anti_U_Absent2

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	IAT
1	Validation Anti_U_Absent2	Donor239 #1	0	0	0	+	+	0			0	0	+	0	+	0	+	0	0	+	0	+	+	+	0	0	0	+	+			0
2	Validation Anti_U_Absent2	Donor240 #2	+	0	0	+	+	0			0	0	+	0	+	0	+	0	0	+	0	+	+	+	+	0	0	0	+	+			0
3	Validation Anti_U_Absent2	Donor241 #3	+	+	0	0	+	+			0	0	+	0	+	0	+	+	0	0	+	0	+	+	+	0	+	+	0	+	+			0
	Auto Control																															

			D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
Homozygous Rule Outs	Double Dose		2	1	0	2	3	1	0	0	3	0	3	0	3	1	0	0	1	0	3	3	1	0	0	0	0	3	3	
Heterozygous Rule Outs	Single Dose			0	0						0				0		0			0		0			0			0		

Evaluation:
- No exclusion yet / No exclusion possible
- The following have insufficient negative reactions to exclude by your rules: E, f, V, K, Kpa, Jsa, Fyb, Jka, Lea, N, S, s, Lua
- Column IAT: can not exclude E, f, V, K, Kpa, Jsa, Fyb, Jka, Lea, N, S, s, Lua
- These are tentative rule-outs.
- Additional confirmatory data based on your own criteria are recommended.

Test Panel 24—Anti_U_Possible

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	IAT
1	Validation Anti_U_Possible	Donor233 #1	0	0	0	+	+	0			0	0	+	0	+	0	+	0	0	+	0	+	+	+	0	0	0	+	+			0
2	Validation Anti_U_Possible	Donor234 #2	+	0	0	+	+	0			0	0	+	0	+	0	+	0	0	+	0	+	+	+	+	0	0	0	+	+			0
3	Validation Anti_U_Possible	Donor235 #3	+	+	0	0	+	+			0	0	+	0	+	0	+	+	0	0	+	0	+	+	0	+	+	0	+	+			2+
	Auto Control																															

			D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
Homozygous Rule Outs	Double Dose		1	0	0	2	2	0	0	0	2	0	2	0	2	0	0	0	0	2	2	0	0	0	0	2	2			
Heterozygous Rule Outs	Single Dose			0	0						0			0			0			0		0			0			0	2	

Evaluation:
- No exclusion yet / No exclusion possible
- The following have insufficient negative reactions to exclude by your rules: C, E, Cw, f, V, K, Kpa, Jsa, Fya, Fyb, Jka, Jkb, Lea, P1, M, N, S, s, Lua, Xga
- Column IAT: can not exclude C, E, Cw, f, V, K, Kpa, Jsa, Fya, Fyb, Jka, Jkb, Lea, P1, M, N, S, s, Lua, Xga, w/Possible Anti-U.
- These are tentative rule-outs.
- Additional confirmatory data based on your own criteria are recommended.

Test Panel 25—Anti D_K

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	C^W	f	V	K	k	Kp^a	Kp^b	Js^a	Js^b	Fy^a	Fy^b	Jk^a	Jk^b	Le^a	Le^b	P1	M	N	S	s	Lu^a	Lu^b	Xg^a	Additional Antigens	IAT

The following have insufficient negative reactions to exclude by your rules: D, Cw, f, V, K, Kpa, Jsa, Lua
Column IAT: can not exclude D, Cw, f, V, K, Kpa, Jsa, Lua
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 26 Heterozygous_C

Panel Heterozygous_C

Selected Panel Test Results — Panel Heterozygous_C

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation Heterozygous_C	Donor244 #1	0	+	0	+	+	0			0	0	+	0	+	0	+	+	+	0	+	0	+	+	+	+	0	0	+	+		0
2	Validation Heterozygous_C	Donor245 #2	+	0	+	+	0	0			0	0	+	+	+	0	+	0	0	+	+	+	0	+	+	0	0	+	0	+		1+
	Auto Control																															

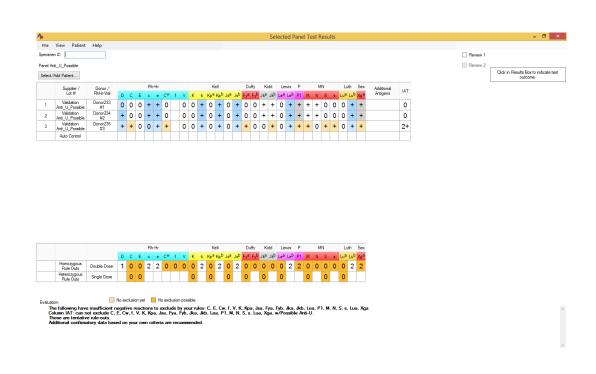|			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
	Homozygous Rule Outs	Double Dose	0	0	0		1	0	0	0	0	1	0	1	0	1	0	0	0	1	0	1	1	0	0	1	0	0	1	1
	Heterozygous Rule Outs	Single Dose		1	0						0		0		0		0		0		0			0	0		0	0		

No exclusion yet   No exclusion possible

Evaluation:
The following have insufficient negative reactions to exclude by your rules: D, E, c, Cw, f, V, K, Kpa, Jsa, Fya, Fyb, Jka, Lea, P1, M, N, s, Lua, Xga
Column IAT: can not exclude D, E, c, Cw, f, V, K, Kpa, Jsa, Fya, Fyb, Jka, Lea, P1, M, N, s, Lua, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 27 Heterozygous_E

Selected Panel Test Results — Panel Heterozygous_E

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga	Additional Antigens	IAT
1	Validation Heterozygous_E	Donor242 #1	0	0	+	+	+	0			0	0	+	0	+	0	+	+	0	+	0	0	+	+	+	0	+	+	+	+		0
2	Validation Heterozygous_E	Donor243 #2	+	+	0	0	+	+			0	+	0	+	0	+	0	+	0	0	0	+	0	+	0	+	0	+	+	+		1+
	Auto Control																															

			D	C	E	c	e	Cw	f	V	K	k	Kpa	Kpb	Jsa	Jsb	Fya	Fyb	Jka	Jkb	Lea	Leb	P1	M	N	S	s	Lua	Lub	Xga
	Homozygous Rule Outs	Double Dose	0	0	0	1	0	0	0	0	0	1	0	1	0	1	1	0	1	0	0	1	1	0	0	0	1	0	0	1
	Heterozygous Rule Outs	Single Dose		0	1						0		0		0		0		0		0			0	0		1			

No exclusion yet   No exclusion possible

Evaluation:
The following have insufficient negative reactions to exclude by your rules: D, C, e, Cw, f, V, K, Kpa, Jsa, Fyb, Jkb, Lea, P1, M, N, S, Lub, Xga
Column IAT: can not exclude D, C, e, Cw, f, V, K, Kpa, Jsa, Fyb, Jkb, Lea, P1, M, N, S, Lub, Xga
These are tentative rule-outs.
Additional confirmatory data based on your own criteria are recommended.

Test Panel 28 K_Kpa_Jsa_Anti_S

File   View   Patient   Help

Specimen #: [ ]

Panel K_Kpa_Jsa_Anti_S: 2 rule outs required, 4 for P1 and Xga   **old exclusion criteria**

Select/Add Patient...

☐ Review 1
☐ Review 2

Click in Results Box to indicate test outcome.

	Supplier / Lot #	Donor / RhHr-Vial	D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ	Additional Antigens	IAT
1	Validation K_Kpa_Jsa_Anti_S	Donor263 #1	0	0	0	+	+	0			0	0	+	0	+	0	+	0	+	+	0	0	+	+	+	0	+	0	0	+		2+
2	Validation K_Kpa_Jsa_Anti_S	Donor264 #2	+	+	0	0	+	+			0	0	+	0	+	0	+	+	0	0	0	0	+	+	+	+	0	0	+	+		2+
3	Validation K_Kpa_Jsa_Anti_S	Donor265 #3	+	+	0	0	+	0		0	+	+	0	+	0	+	+	0	+	0	+	0	+	0	+	0	+	0	+	+		0
4	Validation K_Kpa_Jsa_Anti_S	Donor266 #4	+	0	+	+	0	0		0	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0	+	0		0
5	Validation K_Kpa_Jsa_Anti_S	Donor267 #5	+	w	+	+	0	0		0	0	+	0	+	0	+	+	0	0	+	0	+	0	+	+	0	+	+	+	+		0
6	Validation K_Kpa_Jsa_Anti_S	Donor268 #6	+	0	0	+	+	0	+	+	0	+	0	+	+	0	0	+	0	0	0	+	+	+	0	+	0	+	0		0
7	Validation K_Kpa_Jsa_Anti_S	Donor269 #7	+	+	0	0	+	+		0	0	+	0	+	0	+	+	+	0	0	+	0	+	0	+	0	+	0	+	+		0
8	Validation K_Kpa_Jsa_Anti_S	Donor270 #8	0	0	0	+	+	0		0	+	0	0	0		+	+	+	+	0	+	+	+	0	+	0	+	0	0	+	+		2+
9	Validation K_Kpa_Jsa_Anti_S	Donor271 #9	+	+	0	0	+	0		0	+	+	0	+	0	+	0	+	0	0	+	0	+	0	+	0	+	0	+	+		0
10	Validation K_Kpa_Jsa_Anti_S	Donor272 #10	+	+	0	0	+	+		0	0	+	0	+	0	+	0	+	0	0	+	0	+	0	+	0	+	0	+	+		0
11	Validation K_Kpa_Jsa_Anti_S	Donor273 #11	+	0	0	+	0	0	0	0	+	+	0	+	0	+	+	+	+	0	+	0	+	+	0	0	+	+	0	+		0
12	Validation K_Kpa_Jsa_Anti_S	Donor274 #12	0	0	0	+	+	0	+	0	0	+	+	+		+	+	0	+	0	+	0	+	+	+	0	+	+	+	0		0
	Auto Control																														

		D	C	E	c	e	Cʷ	f	V	K	k	Kpᵃ	Kpᵇ	Jsᵃ	Jsᵇ	Fyᵃ	Fyᵇ	Jkᵃ	Jkᵇ	Leᵃ	Leᵇ	P1	M	N	S	s	Luᵃ	Luᵇ	Xgᵃ
Homozygous Rule Outs	Double Dose	8	5	2	3	7	2	2	1	0	7	0	8	0	7	4	2	4	3	2	6	6	2	3	1	8	1	6	6
Heterozygous Rule Outs	Single Dose		0	0						2		1		1		0		0					0		0		2		

Evaluation:
☐ No exclusion yet   ☐ No exclusion possible

The following have insufficient negative reactions to exclude by your rules: V, Kpa, Jsa, S
Column IAT: can not exclude V, Kpa, Jsa, S
These are tentative rule-outs.