Constant BD OneFlow™ Application Guide for Acute Leukemias

For BD FACSLyric[™] Flow Cytometers

23-21494-01 12/2020



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Laser safety information

The BD FACSLyric flow cytometer is a Class 1 Laser Product.

Regulatory information

For In Vitro Diagnostic Use.

History

Revision	Date	Change made
23-21494-00	5/2020	Initial release
23-21494-01	12/2020	Updated troubleshooting to add new QC messages and assay description for the stopping criteria. Updated workflow for contacting technical service.

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Introduction

This chapter covers the following topics:

- About this guide (page 6)
- Technical support (page 7)

About this guide

What's in this guide	This guide covers the acquisition and analysis workflows for the BD OneFlow TM ALOT assay using BD FACSuite TM Clinical application and describes the OneFlow TM ALOT Laboratory Report. It also includes assay-specific troubleshooting information.
Assumptions	This guide assumes that you have read the <i>BD FACSLyric</i> TM <i>Clinical System Instructions For Use</i> (IFU) and the <i>BD FACSLyric</i> TM <i>Clinical Reference System</i> and that you are familiar with running the software and cytometer. The documents provide details on performing quality control (QC), filling out the worklist, and running samples.
Additional information	See the <i>BD</i> $OneFlow^{TM}$ <i>ALOT</i> IFU for information on preparing samples.

Technical support

Before contacting technical support	Try the following options for answering technical questions and solving problems:				
	• Read the section of this guide specific to the operation you are performing.				
	• See the assay-specific troubleshooting section of this guide for specific problems.				
	• See the troubleshooting section of the <i>BD FACSLyric</i> [™] <i>Clinical System Instructions For Use</i> and the <i>BD FACSLyric</i> [™] <i>Clinical Reference System</i> .				
Contacting	To contact technical support:				
technical support	1. Go to bdbiosciences.com.				
	2. Select your region.				
	3. Click Support.				
	4. Expand your country for details for your local region.				
	When contacting BD Biosciences, have the following information available:				
	• The product name, part number, serial number, and details of recent system performance				
	• The test you are performing				
	Any error messages				

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BD OneFlow™ ALOT Assay

This chapter covers the following topics:

- About the BD OneFlowTM ALOT Assay (page 10)
- BD OneFlow[™] ALOT workflow (page 11)
- Changing the assay stopping criteria (page 12)
- Reviewing the laboratory report (page 14)
- Adjusting gates (page 22)
- Adding items to the supplemental report (page 24)

About the BD OneFlow[™] ALOT Assay

BD OneFlow[™] ALOT is a qualitative 8-color direct immunofluorescence assay for immunophenotyping of aberrant immature populations of hematopoietic cells (lymphoid and nonlymphoid lineage) in bone marrow and peripheral blood. It is a screening tube, meant to direct further analysis of the patient specimen.

About the assay The BD OneFlow[™] ALOT assay consists of a Laboratory Report, which contains dot plots and gates to identify the cell populations of interest, a Physician Report which summarizes the results, a Supplemental Report which can be used as a workspace to add dot plots and gates to the analysis, and tube settings that are used to reach target median fluorescence intensity (MFI) for cell populations, ensuring compatibility with the EuroFlow design.

The BD OneFlow[™] ALOT reagent consists of single-use tubes containing a panel of fluorochrome-conjugated antibodies in an optimized dried formulation. The antibodies are divided between two tubes: BD OneFlow[™] ALOT (S) contains antibodies that recognize surface markers and BD OneFlow[™] ALOT (C) contains antibodies that recognize cytoplasmic markers. The panel comprises the following antibodies:

Antibody	Tube	Fluorochrome
CD34	S	PerCP-Cy TM 5.5
CD19	S	РЕ-Сутм7
CD7	S	APC
CD3	S	APC-H7
CD45	S	BD Horizon™ V500-C
МРО	С	FITC
CD79a	С	PE
CD3	С	BD Horizon [™] V450

The BD OneFlowTM ALOT reagent is used to stain patient specimens. The stained samples are acquired on the cytometer and then analyzed to identify aberrant immature hematopoietic populations of lymphoid and non-lymphoid lineages.

BD OneFlow™ ALOT workflow

Workflow steps

The following table lists the steps in a typical assay workflow.

Step	Description
1	Perform daily instrument Performance QC (PQC) and assay and tube settings setup using BD [®] CS&T Beads. See the BD FACSLyric TM Clinical System Instructions For Use.
2	Prepare the patient specimens. See the <i>BD</i> $OneFlow^{TM}$ <i>ALOT</i> IFU for information.
3	Enter reagent lot and expiration date in the Library. See the <i>BD</i> $OneFlow^{TM}$ <i>ALOT</i> IFU for information.
4	Create worklist. See the BD FACSLyric [™] Clinical System Instructions For Use.
5	Optional: change the number of events to collect, if needed. See Changing the assay stopping criteria (page 12).
6	Acquire samples. See the BD FACSLyric [™] Clinical System Instructions For Use.
7	Review the laboratory report. See Reviewing the laboratory report (page 14).
8	Adjust gates, if necessary.
9	Add dot plots and gates, if necessary. See Adding items to the supplemental report (page 24).

Changing the assay stopping criteria

The OneFlow[™] ALOT assay acquires 100,000 total events by default. If the OneFlow[™] assay v1.1 is unable to acquire 100,000 total events, acquisition will stop after 3 minutes. OneFlow[™] assay v1.0 will stop acquisition after 5 minutes. You can change the number of events acquired or the acquisition time, as needed.

Procedure	То	change the stopping criteria:
	1.	In the worklist, ensure that the run pointer is at the sample for which you want to change the number of events acquired.
	2.	Click the triangle next to the entry number to expand the sample.
		The run pointer will move to the newly expanded tube.
	3.	Right-click the run pointer and select Tube Properties from the menu.
		The Tube Properties - ALOT dialog opens.
	4.	Navigate to the Acquisition tab.
	5.	To change the acquisition time, in the Time Stopping Rule section, select the desired maximum time using the menu.
		Note: We recommend that you do not increase the acquisition time and risk loss of the sample due to insufficient volume.
	6.	To change the number of events acquired, in the Create Gate Criteria section, select or enter the number of events you want to acquire in the Events field.
	7.	Click Add Criteria.
		The selected number of events is added in the Combine Gate Criteria and Apply Rule section.
	8.	In the Combine Gate Criteria and Apply Rule section, select the number of events you want to acquire. Click Apply Rule .

The selected maximum acquisition time and number of events acquired will show in the **Applied Stopping Rule** section.

nera	al Parar	neters	Spillove	r Values	Reagen	ts Keyw	ords	Acquisitio
	Wor	rksheet f	to Display d	luring Acq	uisition:	ALOT Acqu	sition	•
				Storag	e Gate:	All Even	ts	-
Sto	pping Rul	es A	dvanced					
	Time Stopp	oing Rul	e					
	Max Time	300	•	Seconds				
	Create Gat	e Criteri	a					
	Gate:		All Events 🔹	Events:	100,000	•	Add	Criteria
	Combine G	ate Crit	eria and Ap	ply Rule				
ſ	All Events	: 100,00	0					And
								Or
							App	oly Rule
								elete
	Applied St	opping l	Rule					
	[Max Time	: 300] O	R [All Event	s: 100,000]				
_								

9. Click Close.

Note: The new stopping criteria will apply only to the selected tube, not to other tubes in the worklist.

Reviewing the laboratory report

The OneFlow[™] ALOT Laboratory Report contains assay and patient-specific information, cell population statistics, QC messages, dot plots with gates to guide the analysis of the sample, and instrument QC information.

Viewing the laboratory report	1.	Click the Laboratory Report tab to open the report.
	2.	Review page 1 of the laboratory report.
		a. Review the information about the sample, cytometer, and tube for accuracy.
		b. Review the assay results showing the cell population statistics.

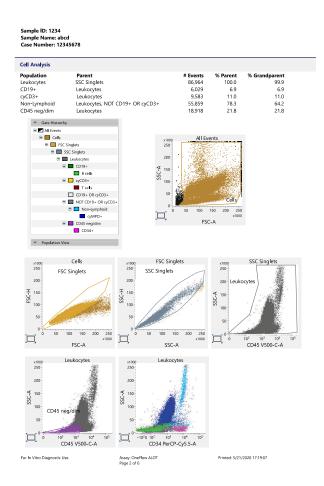
c. Review any QC messages to address potential issues and determine whether they affect the results. See Troubleshooting (page 29) for information.

Cytometer: BD FACSLyric Operator: Admin User	Cytome Director	ed: 5/21/2020 17:18:49 ter SN: 1234567890 : Mr J. Smith nent: Reagents & Assays	So	ntry Status: App oftware: BD FAG stitution: BD ddress: Limeric Ireland	CSuite Clinical v1.4
Tube Name: ALOT					
Events Acquired Performance QC Date Performance QC Status	100,000 5/21/2020 16:54:22 Pass	Sample Type Acquisition Date Acquisition Start Time Acquisition End Time	Bone M 5/21/20 17:06:1 17:06:2)20 4	
Results Summary					
Population All Events Cells	Parent All Events		# Events 100,000 90,004	% Parent 90.0	% Grandparent
FSC Singlets	Cells		87,049	96.7	87.0
SSC Singlets	FSC Singlets		86,968	99.9	96.6
Leukocytes	SSC Singlets		86,964	100.0	99.9
CD19+ B cells (CD19+cyCD79a+)	Leukocytes CD19+		6,029 5,382	6.9 89.3	6.9 6.2
cvCD3+	Leukocytes		9,582	11.0	11.0
T cells (cyCD3+CD3+)	cyCD3+		9,549	99.6	11.0
Non-Lymphoid	Leukocytes NOT CD	19+ OR cyCD3+	55,859	78.3	64.2
cyMPO+	Non-Lymphoid		49,185	88.1	68.9
CD45 neg/dim	Leukocytes		18,918	21.8	21.8
CD34+	CD45 neg/dim		826	4.4	0.9
QC Messages					

3. Inspect the dot plots on page 2 of the laboratory report, and adjust the gates as needed.

Note: The gates in the dot plots of the OneFlow[™] ALOT Laboratory Report are provided for analyzing normal and aberrant cell populations in the specimen.

The dot plots on page 2 of the report identify the major cell populations. First, debris is removed and the singlet populations are identified, followed by the Leukocytes and CD45 neg/dim cells.

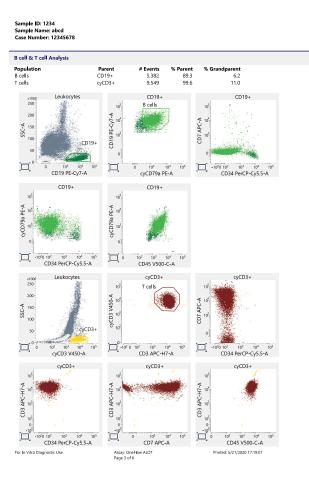


4. Inspect the dot plots on page 3 of the laboratory report, and adjust the gates as needed.

The dot plots on page 3 of the report identify and analyze T cells and B cells. cyCD3⁺ cells are identified from the

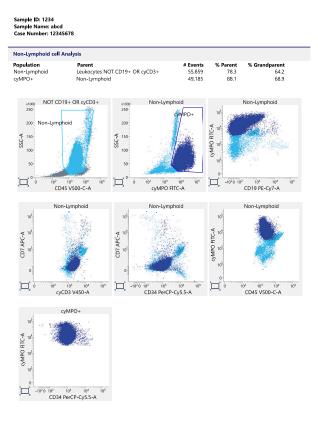
Leukocytes population and then T cells are identified from the cyCD3⁺ population. The cyCD3⁺ cells are further analyzed using various combinations of CD3, CD7, CD34, and CD45.

CD19+ cells are identified from the Leukocytes population and then B cells are identified from the CD19+ population. The CD19+ cells are further analyzed using various combinations of CD7, CD34, CD79a, and CD45.



5. Inspect the dot plots on page 4 of the laboratory report and adjust the gates as needed.

The dot plots on page 4 of the report identify and analyze nonlymphoid cells. Non-lymphoid cells are identified from the NOT cyCD3+ OR CD19+ population and then the cyMPO+ cells are identified from the Non-Lymphoid population. The non-lymphoid cells are further characterized using MPO, CD19, CD7, cyCD3, CD34, and CD45.



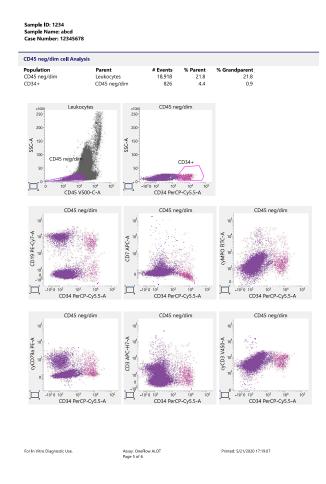
For In Vitro Diagnostic Use.

Assay: OneFlow ALOT Page 4 of 6 Printed: 5/21/2020 17:19:07

6. Inspect the dot plots on page 5 of the laboratory report and adjust the gates as needed.

The dot plots on page 5 of the report are used to identify and analyze the CD45 neg/dim cell population. CD45 neg/dim cells are identified from the Leukocytes population and then CD34+ cells are identified from the CD45 neg/dim population.

The remaining dot plots further characterize the CD45 neg/dim cells for CD34 expression in combination with each of the remaining markers.



7. Inspect page 6 of the laboratory report.

Page 6 of the report includes lot and expiration dates for BD[®] CS&T Beads and the BD OneFlow[™] reagent,

reference settings, tube settings, and cytometer configuration.

Sample ID: 1234 Sample Name: abcd Case Number: 12345678

BD OneFlow ALOT		
CS&T Bead Lot	9420251	
CS&T Bead Lot Expiry	12/31/2021 0:00:00	
Characterization QC Date	3/2/2020 16:04:36	
LW Reference Settings Creation date	3/3/2020 10:18:34	
LW Reference Settings Modified date	5/18/2020 16:22:44	
Reagent Lot (S)	123457	
Reagent Lot Expiry (S)	6/29/2020	
Reagent Lot (C)	123456	
Reagent Lot Expiry (C)	6/29/2020	
Tube Settings	BD OneFlow Settings_v1	
Cytometer Configuration	4-Blue 3-Red 5-Violet	
Keyword 1	Keyword 1	
Keyword 2	Keyword 2	



- 8. Select the Laboratory Report tab.
- 9. Click E-sign.

The E-Signature dialog opens.

- 10. Select a user ID.
- 11. Type your password.
- 12. (Optional) Enter any comments.

13. Click Sign.

The signer's user ID, date and time, and comments are added to the E-signature box in all three reports.

The Laboratory and Physicians Reports are automatically exported to C:\BD Export Clinical. If needed, manually export the Supplemental Report.

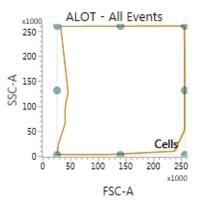
See the *BD* FACSLyric[™] Clinical System Instructions For Use for more information and export options.

Adjusting gates

The provided gates can be adjusted as needed to encompass the population of interest.

To resize or move a gate:

1. Click on a gate in the dot plot so that the gate is in bound mode.

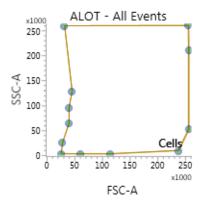


2. Click on one of the circles and drag it to resize the gate.

- 3. Click on one of the lines between the circles and drag it to move the gate.
- 4. Click inside any of the circles to rotate the gate.
- 5. Click the dot plot to exit bound mode.

To adjust the shape of a gate:

1. Double-click on a gate in the dot plot so that the gate is in vertex mode.



- 2. Click on one of the circles and drag it to reshape the gate.
- 3. Click on one of the lines between the circles and drag it to move the gate.
- 4. Click inside any of the circles to rotate the gate.
- 5. Click the dot plot to exit vertex mode.

See the *BD FACSLyric*[™] *Clinical Reference System* for more information.

Adding items to the supplemental report

The OneFlow TM ALOT Laboratory Report includes dot plots
and gates to analyze the cell populations in the sample.
However, you can add dot plots, gates, and statistics to the
OneFlow [™] ALOT Supplemental Report if you want to
identify additional cell populations.



Warning Any gated regions deleted in this Supplemental Report are reflected in the Laboratory and Physician Reports.

Any gated regions created in this Supplemental Report might be reflected in the Laboratory Report.

Procedures

To add a dot plot and gate to the report:

- 1. Click the Supplemental Report tab.
- 2. In the report menu bar, click the create dot plot icon.
- 3. Click on the report to add the dot plot.

An FSC-A vs SSC-A dot plot named ALOT - All Events is added to the report.

4. Right-click on the dot plot and select **Properties** from the menu.

The Plot Editor dialog opens.

5. On the General tab in the Primary Data Source section, select the Parent Population that you want to use.

ieneral Paramete	rs Display DotPlot Overla
Plot type	DotPlot2D •
Plot Title Content	
	Sample
	🖌 Tube
	✓ Populations
	Custom
Primary Data Source	ce ce
Primary Data Sour	ce ✓ Run Pointer
Primary Data Source	🗹 Run Pointer
Primary Data Source	te

The title of the dot plot will change to show the selected parent population.

6. Click the **Parameters** tab and select the **Label** you want to use for the **X Axis** and **Y Axis** from the menu.

eneral Par	ameters Display DotPlot	Overla
X Axis		
Label:	cyMPO FITC-A 🔹	
Scale:	BiExponential 💌	
R Value:	27	
Y Axis		
Label:	cyCD79a PE-A 🔹	
Scale:	BiExponential 💌	
R Value:	201	
Bi-Exponent	ial Global Scaling	
	Use Automatic Scaling	
	SSC Singlets 🔹	

The labels of the axes will change to show the selected labels.

- 7. Click the close box to close the **Plot Editor** dialog.
- 8. Click the icon for the type of gate you want to add.
- 9. Draw the gate to encompass the population of interest.
- 10. Adjust the gate, as needed.

To add statistics to the report:

- 1. In the report menu bar, click to the right of the statistics icon and select **Run Pointer Statistics** to add a statistics box for the selected tube only.
- 2. Click the statistics icon and then click on the **Supplemental Report**.

A statistics box for the designated tube is added to the report.

2234:ALOT RunPointerStatistics															
Name	All Events	Cells	FSC Singlets	SSC Singlets	Leukocytes	CD19+	B cells	cyCD3+	T cells	CD19+ OR cyCD3+	NOT CD19+ OR cyCD3+	Non-Lymphoid	cyMPO+	CD45 neg/dim	CD34+
Events	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
% Total		***	***	***	***		***	***		***	***	***	***	***	***
FSC-A Mean	222	100	***	***	888	398	222	898	898	223	899	898	215	899	999
SSC-A Mean	171	***	***			A11	1.11		4.1.1	10		222	EA.B	A88	344
cyMPO FITC-A Mean	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
cyCD79a PE-A Mean		***	***	***	***		***	***		***	***	***	***	***	***
CD34 PerCP-CyS.S-A Mean	123	***	***	223	883	888	123	888	888	103	899	898	113	888	399
CD19 PE-Cy7-A Mean		***		***	***			***		***	***			A85	***
CD7 APC-A Mean		***		***				***	***	***	***		***	445	***
CD3 APC-H7-A Mean	***	***	***	***	***	***	***	***	899	***	***	***	***	***	***
cyCD3 V450-A Mean	111	***	***	283	111	888	101	***	888		111	888	843	101	388
CD45 V500-C-A Mean	111	333	***	211	EXY	333	111	***	8.8.8	10	***	212	EAN	233	333
Time Mean		***	***	***	***	***	***	***	***	***	***	***	***	***	***

3. Right-click the statistics box and select Edit Statistics.

The Configure Run Pointer Statistics dialog opens.

4. On the **Statistics** tab, clear the parameters to exclude in the statistics.

Clear the top checkbox to clear all of the parameters.

5. On the **Populations** tab, individually clear all of the unneeded populations.

Filter:		
🖌 All Events	✓ Cells	✓ FSC Singlets
✓ SSC Singlets	✓ Leukocytes	✔ CD19+
✓ B cells	✓ cyCD3+	✓ T cells
✓ CD19+ OR cyCD3+	✓ NOT CD19+ OR cyCD3+	🖌 Non-Lymphoid
✓ cyMPO+	✓ CD45 neg/dim	✓ CD34+
✔ Events ✔ %Total%Pa	rent %GrandParent Volume	

6. Select the **%Parent** and **%Grandparent** checkboxes, as needed.

7. The statistics box is reconfigured to show only the specified information.

1234:ALOT RunPointerStatistics				
Name	P1			
Events	***			
% Total	***			
% Grandparent	***			
% Parent	***			

Note: The statistics for the new gated population will not be shown on the laboratory report.

Note: The custom statistics box will not be exported to Laboratory Information Systems (LIS) or exported within the csv file.

To export the custom statistics box:

- 1. Right-click the statistics box.
- 2. Select Export Statistics and the appropriate format.

The Save As dialog opens.

3. Click Save.

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The statistics box is saved as a csv file in C:\BD Export Clinical.

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Troubleshooting

This chapter covers the following topic:

- Troubleshooting overview (page 30)
- Problems with cell preparation or staining (page 30)
- Problems using BD OneFlow[™] ALOT (page 32)
- QC messages (page 33)

Troubleshooting overview

This chapter lists problems you might encounter when using BD OneFlow[™] ALOT, QC messages that might be generated, and provides recommended solutions.

Additional troubleshooting information The *BD FACSLyric*[™] *Clinical Reference System* contains additional troubleshooting information covering the cytometer, setup and QC, software QC messages, and general software troubleshooting. The *BD OneFlow*[™] *ALOT* IFU also contains troubleshooting information related to the reagent and sample staining.

If, after reading through the possible problems and solutions and checking the other sources of troubleshooting information, you still have questions, contact BD Biosciences Technical Support. See Technical support (page 7) for information.

Problems with cell preparation or staining

Problem	Possible cause	Solution
The resolution between debris and lymphocytes is poor.	Specimen was over- permeabilized.	Repeat staining; incubate the tube in FIX & PERM Reagent B for 15 minutes only.
	Specimen is of poor quality.	Check cell viability.
	Specimen is too old.	Obtain a new specimen and stain it immediately.
The cytoplasmic staining (cyMPO, cyCD79a, cyCD3) is dim.	The cells were not completely permeabilized.	Repeat staining; carefully measure the specimen volumes in the cell fixation and permeabilization steps such that the ratio of fixed sample to FIX & PERM Reagent B is 1:1.

Problem	Possible cause	Solution
Cells clump after being fixed.	Cells were not completely resuspended before fixing them.	Vortex tubes until no cell aggregates remain before adding FIX & PERM Reagent A.
	Cells were not thoroughly washed after	1. Fix the cells using FIX & PERM Reagent A.
	fixing them.	2. Add wash buffer and incubate the tubes for 2 minutes, protected from light.
		3. Centrifuge the tubes and proceed to the permeabilization step.
Staining is dim or fading.	Cell concentration was too high at the staining step.	Check the cell concentration and adjust as needed.
	The BD OneFlow TM tube was exposed to light for too long.	Repeat staining with a new BD OneFlow [™] tube.
	Stained cells were stored too long before acquiring them.	Repeat staining with a fresh specimen and acquire it promptly.
Few or no cells are recorded.	Cell concentration was too low.	Resuspend fresh specimen at a higher concentration. Repeat staining and acquisition.
	Cytometer is malfunctioning.	Troubleshoot the instrument. See the cytometer IFU for more information.

Problems using BD OneFlow™ ALOT

Problem	Possible cause	Solution
Not enough cells of interest are acquired.	Cell concentration was too low.	Resuspend fresh specimen at a higher concentration. Repeat staining and acquisition.
	The default setting of 100,000 events acquired is too low.	Change the number of events acquired. Repeat staining and acquisition. See Changing the assay stopping criteria (page 12).
The FSC-A vs SSC-A dot plot is abnormal.	Cytometer needs adjusting.	Contact BD Biosciences.
The csv file and report are not exported automatically.	The reagent lot number and expiration date were not added to the Library.	 Add the reagent lot number and expiration date to the Library. Export the csv file and the report PDF manually. See the BD FACSLyric[™] Clinical System Instructions For Use.
The Run Pointer Statistics dialog is cropped.	Edit Populations was selected when the statistics box was edited in the Supplemental Report.	Select Edit Statistics when editing the statistics box.

QC messages

Review any QC messages to address potential issues and determine whether they affect the results.

QC message	Possible cause	Recommended solution
All Events gate does not contain requested 100,000 events	Cell concentration was too low.	Determine whether there are enough events to make a decision. If needed, resuspend fresh specimen at a higher concentration. Repeat staining and acquisition.
	The default setting of 100,000 events acquired is too high.	Determine whether there are enough events to make a decision. If needed, change the number of events acquired. Repeat staining and acquisition. See Changing the assay stopping criteria (page 12).
Acquired with expired Performance QC	Daily PQC was not performed during cytometer setup.	Use BD [®] CS&T Beads to perform daily PQC. See the <i>BD FACSLyric</i> ™ <i>Instructions for Use</i> .
Acquired without completed Assay Setup	Assay and tube settings setup was not performed during cytometer setup.	Use BD [®] CS&T Beads to perform assay and tube settings setup. See the BD FACSLyric [™] Instructions for Use.

QC message	Possible cause	Recommended solution
Acquired with expired reagent: ALOT	The wrong reagent lot and expiration date are in the Library.	Confirm that the lot and expiration date in the Library match those on the tube label. If necessary, enter the correct information, re-stain the specimen, and acquire it.
	The reagent is past the expiration date.	Repeat staining with a new tube that has not expired. Ensure that the new lot and expiration date are entered in the Library and acquire the sample.
Acquired with expired Reference Settings	The reference settings are expired.	Use BD [®] FC Beads to update the reference settings. See the BD FACSLyric [™] Clinical Reference System.
Acquired with modified tube settings or spillover values	The voltages, compensation, or threshold were adjusted during acquisition.	Repeat staining with a new tube and acquire the sample without making adjustments during acquisition.

If you are running OneFlow[™] ALOT assay v1.1 in BD FACSuite[™] Clinical application v1.5, these additional QC messages might be shown.

QC message	Possible cause	Recommended solution
Gate(s) added	A new gate(s) was created during acquisition or analysis.	Determine whether the additional gate(s) help make a decision. If needed, remove the added gate(s) before signing the report.
Gate(s) deleted	An existing gate(s) was deleted during acquisition or analysis.	Repeat staining with a new tube and acquire the sample with the default gates.

QC message	Possible cause	Recommended solution
Additional plot(s) created	A new plot(s) was created during acquisition or analysis.	Determine whether the additional plot(s) help make a decision. If needed, remove the added plot(s) before signing the report.
Plot(s) removed	An existing plot(s) was deleted during acquisition or analysis.	Repeat staining with a new tube and acquire the sample with the default plots.
Acquired with modified stopping rules	The default settings for stopping rules were adjusted during acquisition.	Determine whether there are enough events to make a decision. If needed, repeat staining and acquire the sample without adjusting the stopping rules during acquisition.

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