# **SVISCISVS**

# Product Guide

# iQue® 3 & iQue® Screener PLUS Validation Beads

Note: To set up your Validation Beads, please follow these instructions to install and customize the template. Also, the lot number shown in the template examples may be different than your lot number of Validation Beads. Please insert the lot number from the beads you received into the templates.

## Product Information

### **Kit Contents**

- One vial of Validation Bead stock
- USB Stick with template (.IET or .BLT) files

### **Applies** To

iQue<sup>®</sup> 3 & iQue<sup>®</sup> Screener PLUS family of instruments

#### Software Requirements

• iQue Forecyt<sup>®</sup> Software 5.4 R1 or Newer

## Procedure

#### 1.0 Prepare the Beads

- Add 300 μL of iQue<sup>®</sup> Screener Buffer or iQue<sup>®</sup> QSol Buffer to a 1.5 mL microcentrifuge tube.
- 1.2 Vortex the vial of Validation Beads.
- 1.3 Add two drops of Validations Beads stock to the buffer.
- 1.4 Vortex for 5 seconds.

### 2.0 Install the Bead Lot Template (iQue Forecyt<sup>®</sup> 6.2 and newer)

The following screenshots demonstrate the workow to update your validation bead lot template.

- 2.1 Launch iQue Forecyt<sup>®</sup> software.
- 2.2 Insert the enclosed USB stick.
- 2.3 Click Device | Quality Control | Load New Bead Lot...

Device	Tools Help				
iQu	ue® Screener PLUS - VBR Options	Plate	Plate Analysis		
Vie Vie	w Instrument Summary w Completed iQue® Screener PLUS - VBR Runs				
Qu	ality Control	•	Perform QC		
Chi	ange Probe and Tubing		Load New Bead Lot		
Chi	ange FluidLink	Q	View QC History		
Ma	nage Plate Models				
Cal	librate Deck Height				
iQu	e® Screener PLUS Detector	•			
Ma	nual Control Mode				

- 2.4 Click the Select .BLT File... button in the Bead Lot Setup Wizard.
- 2.5 Browse the USB directory and select the .BLT file.



- 2.6 Place the preparation of the Validation Beads in the microcentrifuge tube holder.
- 2.7. Click the Next button to begin QC Beads Analysis.

Bead Lot Setup Wizard (Step 2 of 5) - SS000272 (revision 1)

QC Beads Analy	sis <b>e</b>			
Instructions				
Please wait while your QC Beads are analyzed.				
Total Time:	00:46			
Remaining Time:	05:26			
% Complete:	12			
Events/s:	0			
Total Events:	0			
		Previous	Next	Cancel

2.8 Move the Bead Gate to encompass the primary bead population then press the Next button.



2.9 Move the Singlet Bead gate to encompass the singlet bead population then press the Next button.



2.10 Move the "BL1-H - Brightest" gate to encompass the top (right-most) peak on the histogram and press the Next button.



2.11 Repeat **Step 2.10** for the other Analysis parameters.

2.12 Click Finish to complete the Bead Lot Setup for the instrument.

Bead Lot Setup Wizard (Step 5 of 5) – SS000272 (revision 1)

55000		-	Passed
> 50000	96036	0	Passed
> 30000	81214	O	Passed
> 75,00	84,57	0	Passed
< 5,0	1,7	0	Passed
1500 - 1368500	1345880		Passed
1250 - 1868750	1711981	0	Passed
7200 - 3256800	3088908	0	Passed
5050 - 1900950	1583455	٢	Passed
3063 - 139438	131768	0	Passed
9250 - 810750	658046	0	Passed
< 5,0	2,4	0	Passed
< 5,0	2,3	Ø	Passed
< 5,0	2,8	Ö	Passed
	> 30000 > 75.00 < 5.0 11500 - 1368500 11250 - 1868750 07200 - 3256800 07200 - 3256800 03063 - 139438 399250 - 810750 < 5.0 < 5.0 < 5.0	> 30000 81214 >75.00 84.57 <5.0 1.7 11500 - 1368500 1345880 13260 - 1868750 1711981 07200 - 3256800 3088908 16660 - 1800850 1583455 93063 - 139438 131768 93250 - 810750 658046 <5.0 2.4 <5.0 2.3	→ 30000 81214 > 75.00 84.57 <.5,0 1.7 1500 - 1368500 1345880 31250 - 1885750 1711981 31250 - 1885750 1711981 3063 - 139438 131768 32550 - 810750 588046 <.5,0 2.4 <.5,0 2.3 <.5,0 2.8

### 3.0 Install the Bead Lot Template (iQue Forecyt<sup>®</sup> 6.1 and earlier)

- 3.1 Launch iQue Forecyt® software.
- 3.2 Insert the enclosed USB stick.
- 3.3 Click File | Import Templates.
- 3.4 Click the Add... botton on the right side of the screen.
- 3.5 Browse the USB directory and select the .IET file that applies to your instrument.
- 3.6 Click OK. The default template is now installed.



# 4.0 Customize the Template for your Instrument (iQue Forecyt<sup>®</sup> 6.1 and earlier)

Prior to first use, optimize the template for the performance characteristics of your particular instrument.

- 4.1 Click File | New Experiment.
- 4.2 Choose Use Template and Browse...select the template that came with these beads.

Blank Experiment	Use Template	iQue PLUS VBR Daily QC - Lot SS000259	Browse
Instrument	iQue Screener PLUS - V	BR	
Acquisition Lasers	Violet (405nm), Blue (488	nm), Red (640nm)	
Acquisition Limit	17.5 Million Events per P	ate	
Plate Type	1.5ml Microcentrifuge Tu	be Markers: None	
Experiment Name			

- 4.3 Give the experiment a name and click Save.
- 4.4 Place the preparation of the Validation Beads in the microcentrifuge tube holder.
- 4.5 Click the Run button in the Controller Console and wait for the beads to be acquired (approx. 5 min)
- 4.6 Move the Bead gate to encompass the primary bead population.



4.7 Move the Singlet Bead gate to encompass the singlet bead population.



4.8 Move the "BL1-H-Brightest" gate to encompass the top (right-most) peak on the BL1-H histogram.

Note: Do not resize the gate. Just click and drag the label to move it sideways.



4.9 Repeat **Step 4.8** for the other six fluorescence histograms: BL2, BL3 BL4, BL5, VL1 and RL1-H.



4.10 Switch to the Design tab. Click on the Notepad icon next to the Notes field. Edit the notes to include your instrument's serial number and the date you revised the template and click OK.



- 4.11 Click Save.
- 4.12 Click File | Save as Template. Give your template a new name and click Save. Your customized template is now ready to use for future Daily QC runs.

# Sales and Service Contacts

# For further contacts, visit www.sartorius.com

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