



Quick Reference Card

Muse™ System Check Kit MCH100101

To verify the performance of the Muse™ System

For Research Use Only; not for use in diagnostic procedures.

Storage Conditions

Store the Muse™ System Check Kit at 2 to 8°C, protected from light.

Kit Components

- Muse™ System Check Beads (Part No. 4200-0638)
- Muse™ System Check Diluent (Part No. 4200-0640)

Materials Recommended

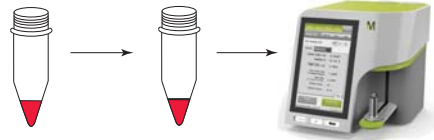
- Muse™ Cell Analyzer
- Micropipettors
- Disposable micropipettor tips
- Microcentrifuge tubes with screw caps, 1.5 mL (VWR Catalog No. 16466-030, or equivalent)
- Vortex mixer
- Disposable gloves
- 20% bleach solution
- Deionized water

Assay Protocol

Add 380 μ L of System Check Diluent to a tube.

Add 20 μ L of System Check Bead Reagent.

Mix thoroughly and run on Muse™ Cell Analyzer.



NOTE: Three replicates are acquired and the results are averaged.

Results

The result appears as PASS or FAIL. The result is based on the mean fluorescence intensity (MFI) values, as well as the bead count for each replicate. The bead count (Particles/mL) for each replicate and the average are displayed, as well as the %CV. The MFIs are not displayed on the Results screen but can be found in the service log. For information on accessing the service log, refer to the *Muse™ Cell Analyzer User's Guide*.

A

The screenshot shows the 'Results' screen for a successful system check. The top navigation bar includes 'Home', 'Check', 'Info', 'Run', and 'Results'. Below the navigation bar, the date and time are '110279 29-DEC-2011 11:54:20'. The main display area shows 'Bead Info' with a printer icon and a large green 'PASS' result. Below this is a table with the following data:

Bead Lot #	Sample Info	Particles /mL
110279	Rep 1	4.71e+04
	Rep 2	4.71e+04
	Rep 3	4.71e+04
Avg	4.71e+04	
%CV	0.00 %	

Additional information includes 'Expiration Date: 06-Jan-2012' and 'Check Code: 6543290'. At the bottom, there are 'Finish (Return to Launcher)' and 'Next Run (Run Next Check)' buttons. The status bar at the very bottom shows 'User: Pat Status: System Check completed - Results' and battery levels at 91% and 99%.

B

The screenshot shows the 'Results' screen for a failed system check. The top navigation bar includes 'Home', 'Check', 'Info', 'Run', and 'Results'. Below the navigation bar, the date and time are '11-0254 07-SEP-2011 07:45:23'. The main display area shows 'Bead Info' with a printer icon and a large red 'FAIL' result. A red question mark icon with the text 'troubleshooting information' points to it. Below this is a table with the following data:

Bead Lot #	Sample Info	Particles /mL
11-0279	Rep 1	85
	Rep 2	957
	Rep 3	62
Avg	62	
% CV	0.6	

Additional information includes 'Expiration Date: 01-JAN-2012' and 'Exp. Particles / mL: 96000'. At the bottom, there are 'Finish (Return to Launcher)' and 'Next Run (Run Next Check)' buttons. The status bar at the very bottom shows 'User: KVT Status: System Check Completed' and battery levels at 92% and 88%.

Figures A and B. Example Data: System Check bead data obtained with the Muse™ System Check software module and acquired on the Muse™ Cell Analyzer. Figure A shows passing results, while Figure B shows results that failed. Results include the bead count for each replicate, average bead count, and %CV. Bead counts (Particles/mL) that fall outside $\pm 10\%$ of the expected value appear in red.

For more information, refer to the kit user's guide, which can be found at www.millipore.com/muse.

Related Products

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- Muse™ Count & Viability Kit (100T) – MCH100102
- Muse™ Count & Viability Kit (600T) – MCH600103
- Muse™ Count & Viability Kit (200X) – MCH100104
- Muse™ Annexin V & Dead Cell Kit – MCH100105
- Muse™ Cell Cycle Kit – MCH100106
- Muse™ Cell Dispersal Reagent – MCH100107



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