



Quick Reference Card

Muse™ Count & Viability Kit MCH100102 & MCH600103

To determine the count and viability of cellular samples

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

Storage Conditions

Store the Muse™ Count & Viability Reagent at 2 to 8°C, protected from light.

Kit Components

Muse™ Count & Viability Reagent:

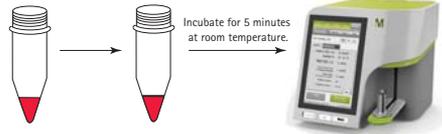
- Part No. 4000-0335, 100 tests/bottle
- Part No. 4000-0340, 600 tests/bottle

Materials Recommended

- Muse™ Cell Analyzer
- Cell suspension
- Dilution buffer: Phosphate buffered saline (PBS), or equivalent balanced salt solution (pH 7.2 to 7.4), or complete growth medium
- Micropipettors
- Disposable micropipettor tips
- Microcentrifuge tubes with screw caps, 1.5 mL (VWR Catalog No. 16466-030, or equivalent)
- Muse™ Count & Viability Cell Dispersal Reagent (Catalog No. MCH100107), optional
- Vortex mixer

Assay Protocol

Add Muse™ Count & Viability reagent* to each tube. Add cell suspension* to each tube.



* Use the cell concentrations and volumes in the table below as a guideline when preparing samples.

NOTE: Adherent cells have been validated for this assay. For more information, refer to the kit user's guide.

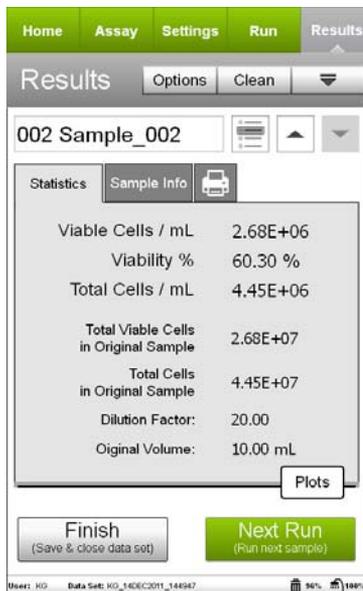
Conc. of original cell suspension	Dilution factor	Cell suspension volume	Count & Viability volume
1×10^5 to 1×10^6 cells/mL	10	50 μ L	450 μ L
1×10^6 to 1×10^7 cells/mL	20	20 μ L	380 μ L
$> 1 \times 10^7$ cells/mL	40	20 μ L	780 μ L

NOTE: A detailed kit user's guide can be found at www.millipore.com/muse.

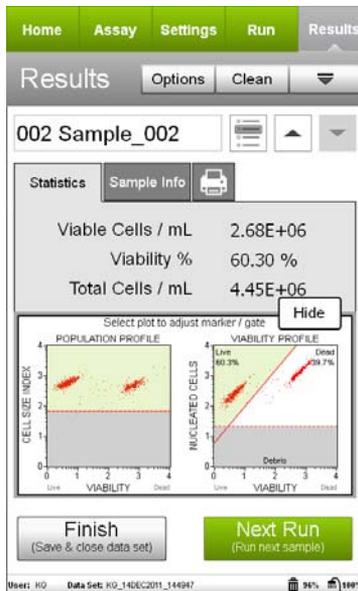
Expected Results

Figures A and B show an example of results obtained using the Muse™ Count & Viability Kit.

A



B



Figures A and B. Example Data: Results obtained with the Muse™ Count & Viability software module using healthy Jurkat cells mixed with heat-killed Jurkat cells, stained with Muse™ Count & Viability Kit, and acquired on the Muse™ Cell Analyzer. Figure A shows results without dot plots, while Figure B shows the same results with the optional dot plots. The statistics show the concentration of viable cells, the % viability, and the total cell concentration for the Jurkat cell sample shown. The first plot in Figure B shows the Viability vs Cell Size; the second plot shows the Viability vs Nucleated Cells plot.

The latest version of Muse™ software, which includes all assay modules, as well as the kit user's guide, can be found at www.millipore.com/muse.

Related Products

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Muse™ System Check Kit – MCH100101

Muse™ Count & Viability Kit (200X) – MCH100104

Muse™ Annexin V & Dead Cell Kit – MCH100105

Muse™ Cell Cycle Kit – MCH100106

Muse™ Cell Dispersal Reagent – MCH100107

Muse™ Caspase-3/7 Kit – MCH100108

Muse™ MultiCaspase Kit – MCH100109

Muse™ MitoPotential Kit – MCH100110



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