

## Quick Reference Card

# Muse® Count & Viability Kit MCH100102 & MCH600103

To determine the count and viability of cellular samples

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:

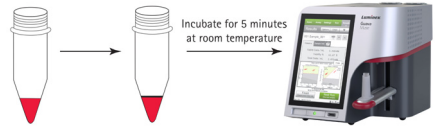
- Part No. 4000-0335, 40 mL
- Part No. 4000-0340, 240 mL

### Materials Recommended

- Guava® 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.

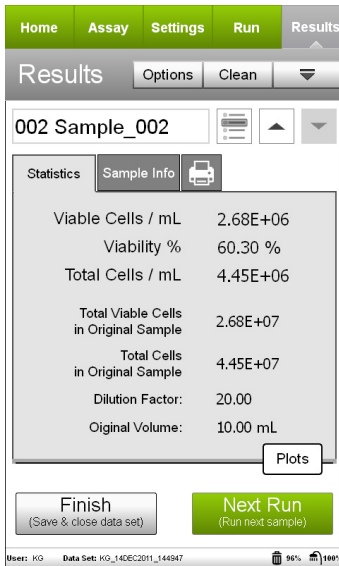
Concentration of original cell suspension	Dilution Factor	Cell Suspension volume	Count & Viability Volume
$1 \times 10^5$ to $1 \times 10^6$ cells/mL	10	50 $\mu$ L	450 $\mu$ L
$1 \times 10^6$ to $1 \times 10^7$ cells/mL	20	20 $\mu$ L	380 $\mu$ L
$>1 \times 10^7$ cells/mL	40	20 $\mu$ L	780 $\mu$ L

**NOTE:** A detailed kit user's guide can be found at [www.luminexcorp.com/flowkits](http://www.luminexcorp.com/flowkits).

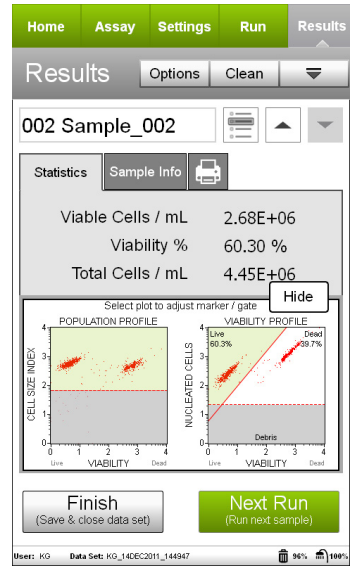
## Expected Results

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.luminexcorp.com/flowkits](http://www.luminexcorp.com/flowkits).

## Related Products

For Research Use Only. Not for use in diagnostic procedures.

- 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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