



Quick Reference Card

Muse™ Human B Cell Kit

MIM100103

For use in laboratory research studies to determine the B cell count, total lymphocyte count, and B cell percent of lymphocytes in human whole blood and PBMC samples

CAUTION: This kit should not be used for patient diagnosis or patient management.
For Research Use Only; not for use in diagnostic procedures.

Storage Conditions

Store the Muse™ Human B Cell Cocktail and 1X Assay Buffer BA at 2 to 8°C, protected from light. Store the Human 1X Lysing Solution at room temperature.

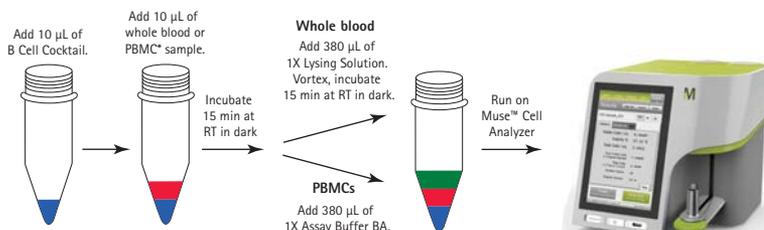
Kit Components

- Muse™ Human B Cell Cocktail (Part No. 4700-1635, 100 tests/vial)
- Human 1X Lysing Solution (Part No. 4700-1620, 100 tests/vial)
- 1X Assay Buffer BA (Part No. 4700-1360, 100 tests/vial)

Materials Recommended

- Muse™ Cell Analyzer
- Whole blood or PBMC samples
- Micropipettors
- Disposable micropipettor tips
- Microcentrifuge tubes with screw caps, 1.5 mL (VWR Catalog No. 16466-030, or equivalent)
- Vortex mixer

Assay Protocol



* PBMC samples should be in 1X Assay Buffer BA at a concentration of 4×10^5 to 2×10^7 cells/mL.

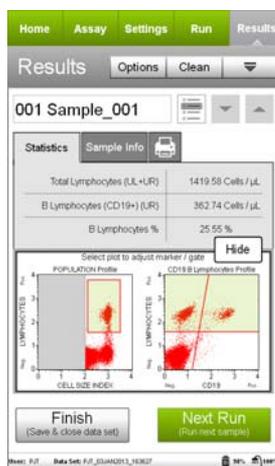
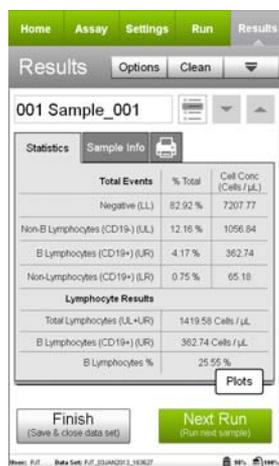
NOTE: A detailed kit user's guide can be found at www.millipore.com/muse.

Expected Results

The Muse™ B Cell Assay provides results for B cell lymphocyte count, B cell percent, and total lymphocyte count.

Results for each of the four quadrants are as follows:

- Upper-left quadrant: non-CD19 lymphocytes [lymphocyte(+) and CD19(-)]
- Upper-right quadrant: B lymphocytes [lymphocyte(+) and CD19(+)]
- Lower-left quadrant: negative cells [lymphocyte(-) and CD19(-)]
- Lower-right quadrant: CD19 non-lymphocytes [lymphocyte(-) and CD19(+)]



Figures A and B. Example Data: Results obtained with the Muse™ Human B Cell module for adult whole blood stained with the Muse™ Human B Cell Kit and acquired on the Muse™ Cell Analyzer. Figure A shows results without dot plots, while Figure B shows results with optional dot plots. The statistics show cells/ μ L in the original sample, population percentages, as well as total lymphocyte count and B cell percentage of lymphocytes. The first plot in Figure B shows Cell Size vs Lymphocytes and the second plot shows CD19 staining vs Lymphocytes.

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

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

Muse™ Human CD4 T Cell Kit – MIM100101

Muse™ Human CD8 T Cell Kit – MIM100102

Muse™ Human Lymphocyte CD69 Kit – MIM100104

Muse™ Human Lymphocyte CD25 Kit – MIM100105

Muse™ System Check Kit – MCH100101

Muse™ Count & Viability Kit (100T) – MCH100102

Muse™ Annexin V & Dead Cell Kit – MCH100105

