

Veri-Cells™ Leukocytes

Catalog# / Size	426003 / 10 tests 426001 / 25 tests 426004 / 50 tests 426002 / 100 tests
Regulatory Status	RUO
Other Names	Control cells
Description	The reconstituted lyophilized human leukocytes can be used for immunofluorescent staining and multi-color flow cytometry assays. The cells can be used as controls for stability studies to avoid donor variability. These cells have been verified to work with commonly tested cell surface markers such as CD3, CD4, CD8, CD19, CD20, CD56/16, CD14, CD25, CD69, HLA-DR, Granzyme B, Perforin, Foxp3, and Helios.

[View all 100+ markers verified by LEGENDScreen™.](#)

This product contains human cells, a potentially biohazardous material. Blood used in preparation of these samples was tested and found to be negative, using FDA approved methods, for antibody and nucleic acid testing against Human Immunodeficiency virus (HIV), Hepatitis B and C virus and HTLV (Human T-Lymphotropic virus I and II), surface antigen for Hepatitis B (HBsAg) virus and syphilis and West Nile Virus. Biological tests are not 100% accurate. Use standard precautions when handling and treat as if the product is capable of transmitting disease. When handling or disposing, follow precautions described in CDC and FDA recommendations and OSHA Bloodborne Pathogen guidelines.

Kit Contents

Kit Contents	<p>Cat. No. 426001</p> <ul style="list-style-type: none"> • 1 vial of lyophilized Veri-Cells™ Leukocytes ($\geq 5 \times 10^6$ cells) • 1 vial containing 1.5 ml of Veri-Cells™ Buffer A Plus <p>Cat. No. 426002</p> <ul style="list-style-type: none"> • 4 vials of lyophilized Veri-Cells™ Leukocytes ($\geq 5 \times 10^6$ cells per vial) • 4 vials containing 1.5 ml of Veri-Cells™ Buffer A Plus each <p>Cat. No. 426003</p> <ul style="list-style-type: none"> • 2 vials of lyophilized Veri-Cells™ Leukocytes ($\geq 1 \times 10^6$ cells per vial) • 1 vial containing 700 μl of Veri-Cells™ Buffer A Plus each <p>Cat. No. 426004</p> <ul style="list-style-type: none"> • 10 vials of lyophilized Veri-Cells™ Leukocytes ($\geq 1 \times 10^6$ cells per vial) • 5 vial containing 700 μl of Veri-Cells™ Buffer A Plus each <p>Veri-Cells™ Buffer A Plus is an improved version of the original Veri-Cells™ Buffer A to improve staining performance with tandem dyes.</p>
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Product Details

Formulation	Cat. Nos. 426003 and 426004: $\geq 1 \times 10^6$ lyophilized human peripheral blood leukocytes per vial. Cat. Nos. 426001 and 426002: $\geq 5 \times 10^6$ lyophilized human peripheral blood leukocytes per vial.
Preparation	The Veri-Cells™ Leukocyte Kit is prepared from lyophilized human leukocytes and a vial of Veri-Cells™ Buffer A Plus.
Storage & Handling	Store the kit at 2°C - 8°C upon receipt. Do not open sealed pouch until ready to use. Once reconstituted, the cells may be used for up to five days if properly stored at 2°C - 8°C in the buffer provided. Contact BioLegend Technical Support for information on the current lots.
Application	FC - Quality tested ICFC - Verified
Recommended Usage	50 μ l per 5 test vials (after reconstitution with 325 μ l) 50 μ l per 25 test vials (after reconstitution with 1.3 ml) Note: Veri-Cells™ Buffer A Plus may show precipitation over time, however this is normal and does not affect performance of the buffer.
Application Notes	The Veri-Cells™ Leukocytes Kit can be used as a positive control for surface and intracellular immunofluorescent staining and multi-color flow cytometry assays. It can also be used for the detection of intracellular molecules such

as Granzyme B, Perforin, Foxp3 and Helios using BioLegend's Fixation Buffer (Cat. No. 420801) and Intracellular Staining Permeabilization Wash Buffer (10X) (Cat. No. 421002) or the True Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401). For best results, Cell Staining Buffer (Cat. No. 420201) is recommended for any washing steps. Please note, any claims relative to product performance are based on testing with BioLegend reagents and protocols. Deviations from the use of these reagents and procedures have not been assessed and may affect performance.

Cell subset	Acceptance Criteria, % of lymphocyte gate
CD3 ⁺	55-95
CD4 ⁺ CD3 ⁺	30-65
CD8 ⁺ CD3 ⁺	10-40
CD19 ⁺ CD3 ⁻	3-30
CD56 ⁺ CD16 ⁺ CD3 ⁻	3-40
CD14 ⁺	2-20
CD15 ⁺	50-90

Note on indicated ranges: Percent positive values are based on gates set on unstained cells. The antibodies used for testing were the following: CD56 PE (clone 5.1H11), CD16 PE (clone 3G8), CD19 APC (clone HIB19), CD3 FITC (clone UCHT1), CD4 PE/Cy7 (clone RPA-T4), CD8 APC/Cy7 (clone RPA-T8), CD14 (clone HCD14) PE/Dazzle™ 594 and CD15 (clone W6D3) Pacific Blue™. Variability in antibodies used, instruments, staining conditions and other factors may influence end-user values. The Certificate of Analysis specific values are provided as a reference. It is recommended that individual laboratories establish its own control values and ranges for each parameter based on laboratory specific conditions and protocols.

Please use our [CoA Look-Up Tool](#) to find the expected lot-specific frequencies of certain cell populations included within each lot of Veri-Cells™ Leukocytes. The antibodies used for testing were the following: CD56 PE (clone 5.1H11), CD16 PE (clone 3G8), CD19 APC (clone HIB19), CD3 FITC (clone UCHT1), CD4 PE/Cy7 (clone RPA-T4), CD8 APC/Cy7 (clone RPA-T8), CD14 PE/Dazzle™ 594 (clone HCD14) and CD15 Pacific Blue™ (clone W6D3). Percent positive is based on gates set on unstained cells. The Certificate of Analysis specific values are provided only as a reference. Variability in antibodies used, instruments, staining conditions and other factors may influence end-user values. It is recommended that individual laboratories establish its own control values and ranges for each parameter based on laboratory specific conditions and protocols.

Additional Product Notes

Veri-Cells™ Buffer A Plus is an improved version of the original Veri-Cells™ Buffer A to improve staining performance with tandem dyes.

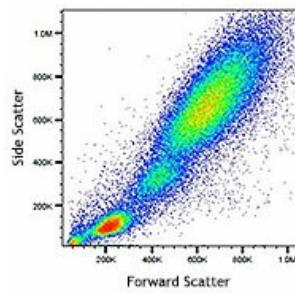
Antigen Details

Biology Area	Immunology
Molecular Family	CD Molecules
Gene ID	NA

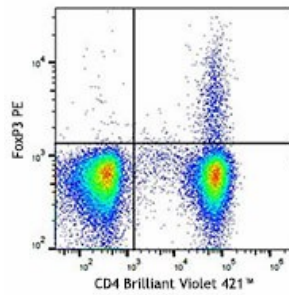
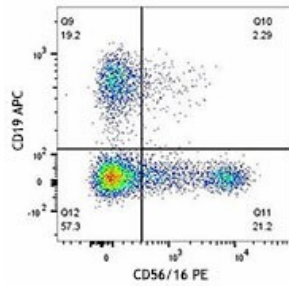
Related Protocols

[Protocol for using Veri-Cells™](#)

Product Data



Veri-Cells™ Leukocytes were stained with anti-human CD19 (clone HIB19) APC, CD16 (clone 3G8) PE and CD56 (clone HCD56) PE surface markers or CD4 Brilliant Violet 421™ and FoxP3 (clone 206D) PE. Above: Veri-Cells™ Leukocytes scatter pattern. Below: T-cell, B-cell, Natural Killer cell and FoxP3 staining profiles.



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