



AKADEUM
LIFE SCIENCES

Microbubble Leukopak Human PBMC Isolation Kit

with BACS™ Microbubbles

From leukopak bag to purified PBMCs in one hour with high yield, leukopak human PBMC isolation has never been easier!



Better Science Relies on Better Cells

Isolate truly untouched Human Leukopak Peripheral Blood Mononuclear Cells (PBMCs) directly from leukapheresis material without the need for lysis or density gradient centrifugation. The **Microbubble Leukopak Human PBMC Isolation Kit** was developed with **BACS™ Microbubbles** to isolate pristine and untouched Leukopak PBMCs from leukopak material. Non-PBMCs are targeted and removed with antibodies recognizing CD66b, CD123, CD235ab via negative selection.

Isolated Leukopak PBMCs are suitable for flow cytometry, molecular assays, activation and expansion, cell culture, and other functional studies. The **Microbubble Leukopak Human PBMC Isolation Kit** has the capacity to isolate PBMCs from an average half-leukopak (12.5×10^9 total cells, red blood cells and white blood cells combined).

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Why BACS™ Microbubbles?



Say goodbye to Ficoll and lysis - Chemical-free processing that avoids exposing cells to lysis and density gradient reagents for truly untouched leukopak PBMCs.



Enjoy higher recovery Industry leading recovery of Leukopak PBMCs allows you to get the most out of your leukopaks, limiting donor recalls.



Shorter processing time From leukopak bag to purified cells under an hour enables greater productivity, adding flexibility to your day.



No dedicated equipment, no magnets, or columns Only general tools and equipment needed are pipet, centrifuge, and end-over-end rotator.



Scalable to your needs Process more material per isolation and more isolations per shift.



Painless platelet removal Spare your cells from repeated washes and centrifugations.



Gentle on fragile cells Exceptionally gentle on delicate Leukopak PBMC isolation.

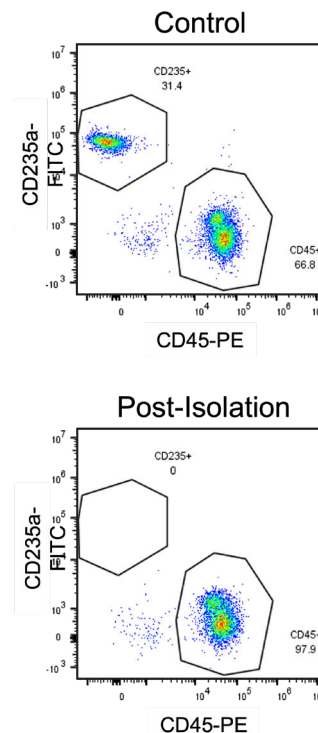
Hassle-Free PBMC Enrichment from Leukopaks

The **Microbubble Leukopak Human PBMC Isolation Kit** streamlines PBMC isolations by eliminating the need for excess equipment and time-consuming sample preparation (i.e., Ficoll gradients or lysis) – allowing you more time to spend focusing on what matters, your science. By ruling out the need for pre-processing, the **Microbubble Leukopak Human PBMC Isolation Kit** minimizes handling steps and consistently delivers more isolated leukopak PBMCs. Get the most out of your time and material with the **Microbubble Leukopak Human PBMC Isolation Kit**.

How the Microbubble Leukopak Human PBMC Isolation Kit Works:

Leukopak samples contain a milieu of immune cells (i.e., white blood cells), plasma, platelets, and red blood cells. The **Microbubble Leukopak Human PBMC Isolation Kit** uses a negative selection method to enrich leukopak PBMCs by removing unwanted cell populations.

These unwanted cells are labeled with an optimized cocktail of biotinylated antibodies targeting CD66b, CD123, and CD235ab. **BACS™ Streptavidin Microbubbles** are mixed into the sample where they bind to the labeled cells and gently float them to the surface. Untouched leukopak PBMCs in their original state are subsequently harvested. Isolated leukopak PBMCs are suitable for flow cytometry, molecular assays, activation and expansion, cell culture, or other functional studies.



Ordering Information

13210-223 Microbubble Leukopak Human PBMC Isolation Kit