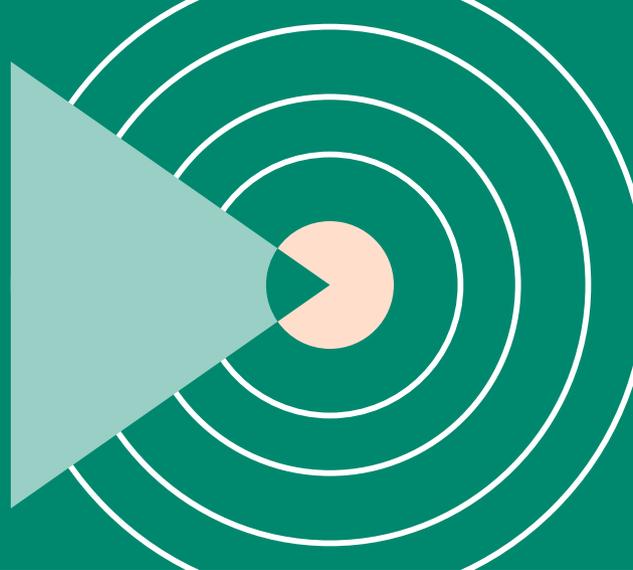


Leukosorb™ media



White blood cell isolation medium for molecular diagnostics

Our patented leukocyte removal medium is a hydrophilic, fibrous matrix designed for use in procedures requiring isolation of leukocyte from whole blood samples.

Whole blood samples can be applied to the top of membrane and allowed to pass through the filter matrix either by gravity or pressure. If using a pressurized filtration system, care must be employed not to lyse the red blood cells resulting in hemoglobin contamination.

As the whole blood samples pass through the membrane, the leukocytes are isolated from the sample and become trapped within the fibrous matrix of the membrane. A visual representation of leukocyte removal is shown in Figure 1.

The material is intended for use in assays involving analysis of the filter effluent or direct analysis of the trapped white blood cells. It is a good choice for use in assays that may require the removal of white blood cells from samples to eliminate interferences. If the assay requires the analysis of the leukocytes or nucleic acid components, a variety of extraction and detection systems may be applied depending on the assay requirements. The medium can be used to trap leukocytes and extract nucleic acid samples, which can then be prepared for use in polymerase chain reaction (PCR) applications.

Applications

- Leukocyte removal
- Molecular diagnostics
- DNA prep prior to PCR

Sealing

- Mechanical

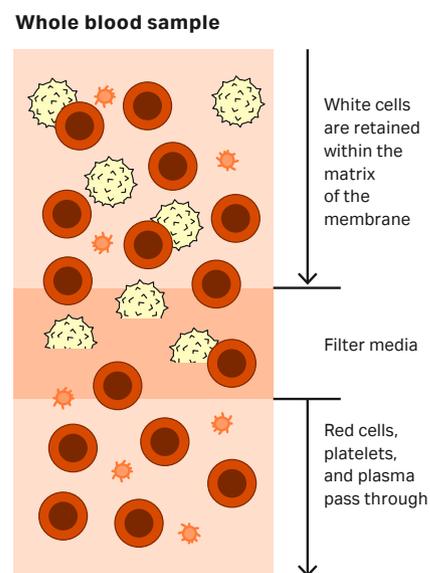


Fig 1. Leukocyte removal from whole blood.

Product specifications

Typical membrane characteristics

Base material	Proprietary
Pore size	8.0 μm
Thickness	14.0–22.0 mils 355.6–558.8 μm
Gamma sterilizable	yes

Typical performance characteristics

Leukocyte immobilization	40%–80%
Leukocyte retention post wash	70%–80%
Hold-up	40–70 $\mu\text{L}/\text{cm}^2$

Sample	Total leukocytes ($\times 10^9$ L)	Percent removal (%)	Lymphocytes ($\times 10^9$ L)	Percent removal (%)	Mid-range size leukocytes ($\times 10^9$ L)	Percent removal (%)	Granulocytes ($\times 10^9$ L)	Percent removal (%)
Whole blood control	6.5	N/A	2.7	N/A	2.0	N/A	1.8	N/A
Membrane filtered sample 1	3.6	44.2	2.0	24.5	0.9	56.1	0.7	42.9
Membrane filtered sample 2	3.9	39.5	2.0	24.5	1.1	46.3	0.8	54.3
Membrane filtered sample 3	3.5	45.7	2.0	24.5	1.0	51.2	0.5	40.0
Membrane filtered sample 4	3.7	42.6	2.0	24.5	1.1	46.3	0.6	52.2

Ordering information

Product	Product code
Leukosorb B media 8" \times 10" sheet	BSP0669

For more details on custom sizes and specific requests, or if you'd like to request a sample, please reach out to us.

info.cytivalifesciences.com/wdx-molecular-lab-poc-assay

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CY40699-01Feb24-FL

