
Sterile Acrodisc™ white blood cell syringe filter

Proven performance

Acrodisc™ white blood cell (WBC) syringe filter uses proprietary filter technology to separate leukocytes from whole blood in less than 10 minutes. The sterile Acrodisc WBC filter contains Leukosorb™ media, a fibrous matrix that uses a multimodal approach of size exclusion and adsorption to capture and recover leukocytes from whole blood samples while allowing red blood cells (RBCs) and platelets to flow through the membrane.

The sterile Acrodisc WBC syringe filter provides scientists an efficient method to isolate blood cells used in a variety of research applications including:

- Leukocyte depletion
- Whole WBC capture
- Ficol separations
- Lymphocyte recovery for cell therapy
- Monoclonal antibody development
- Stem cell research applications

The uniquely designed Acrodisc WBC syringe filter performs all the difficult capture work, resulting in more efficient white blood cell separation compared to buffy coat density gradient and larger size filter methods. This includes 100% removal of viable WBC, 99% recovery of RBC in the filtrate for leukocyte depletion applications and ~60% WBC recovery from backflush step for leukocyte recovery applications. The sterile Acrodisc WBC syringe filter yields greater cell capture and recovery with less sample compared to larger filter formats.



Anti-coagulant compatibility

The filters were tested with K2EDTA anticoagulant.

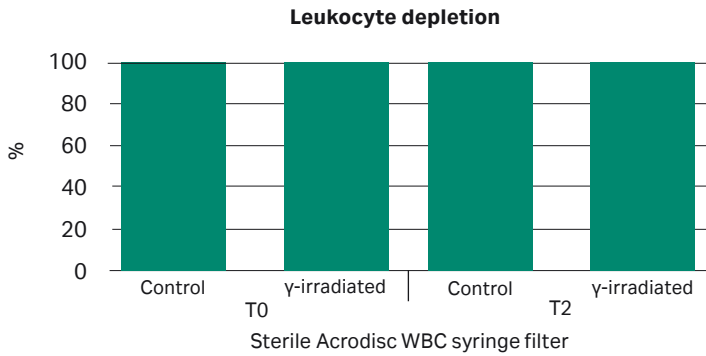


Fig 1. Leukocyte depletion (%) values from whole blood samples after filtration with sterile Acrodisc WBC syringe filter. Values represent the average calculated from the 20 replicates tested under each condition.

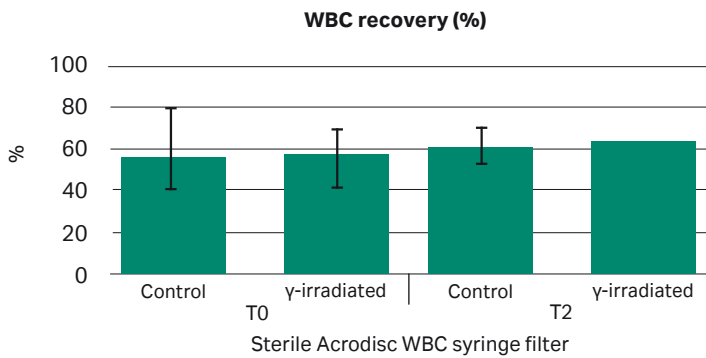


Fig 2. WBC % recovery values using sterile Acrodisc WBC syringe filter values represent the average calculated from the 20 replicates tested under each condition.

Specifications

Materials of construction

Filter media: Leukosorb
Housing: Polypropylene

Effective filtration area

3.9 cm²

Recommended sample volume

5 mL

Inlet and outlet connections

Female luer-lock (clear) inlet and female luer-lock (white) outlet

Maximum operating pressure

30 psi

Recommended operating temperature

Ambient

Shelf life

3 years

Typical Leukocyte depletion

99.6%

Typical WBC recovery

60%

Ordering information

Sterile Acrodisc WBC syringe filter with Leukosorb membrane

Product code	Description	Pkg
AP-4951	25 mm	10/pkg
AP-4952	25 mm	2/pkg

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