PCR*opsis* Blood Cell Separator (BCS)

Separate WBC & RBC without centrifugation

Cat. No. BCS015 PATENT PENDING

PRODUCT INFORMATION SHEET

Features:

- Simple means of separating white blood cells (WBC) from red blood cells (RBC) without centrifugation and minimal hands-on involvement
- Ideal for automation and high throughput applications

Description:

The PCR*opsis* BCS tube offers an alternative to density gradient enrichment of WBC. The substrate used by PCR*opsis* BCS tubes is specifically formulated to precipitate RBC while maintaining WBC in the top layer. This results in unlabeled, untouched WBC for various applications.

Protocol:

1) Add anti-coagulated whole or diluted blood to PCR*opsis* BCS tube, tightly place cap and gently invert several times to ensure complete mixing
   a) 0.5~1 mL of blood / 2 mL PCR*opsis* BCS (cat. no. BCS002)
   b) 3~10 mL of blood / 15 mL PCR*opsis* BCS (cat. no. BCS015)
   c) 10~30 mL of blood / 50 mL PCR*opsis* BCS (cat. no. BCS050)
2) Let PCR*opsis* BCS tube with blood sit for >10 minutes at room temperature for separation to occur
3) Remove supernatant above substrate containing an enrichment of WBC
4) Use WBC in desired application

Kit Contents

	Qty.	Storage Temp.
PCR*opsis* BCS		Room temp.
Product Info. Sheet	1	-

Note: This product is for research use only and should only be used by trained professionals. Wear protective gloves and eye protection. Follow the safety guidelines and rules enacted by your institution. A commercial license must be purchased from Entopsis LLC if this product is to be used for any commercial purposes within or outside of the United States of America.

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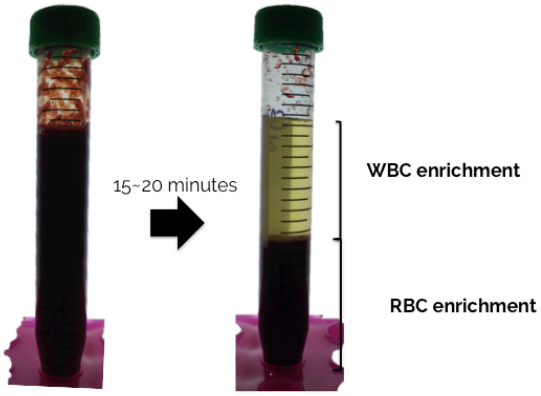
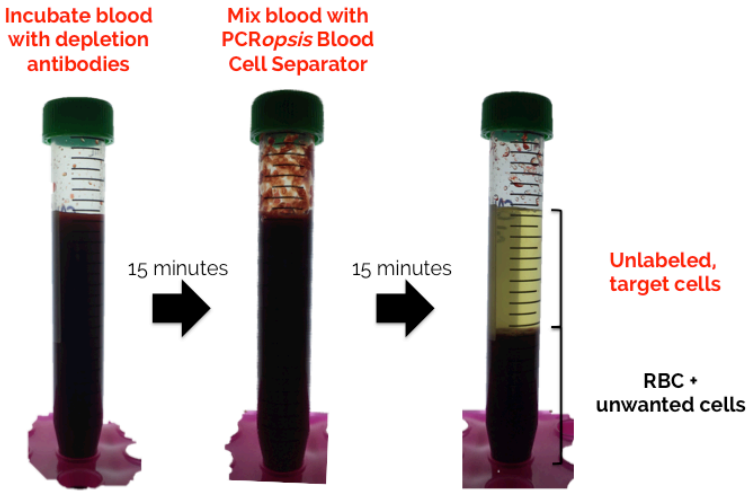


Average recovery when using 10 mL whole blood with 15 mL PCR*opsis* BCS (cat. no. BCS015)

- **10 minute: 1.5~2 mL WBC enrichment**
- **15 minutes: 2~3 mL WBC enrichment**
- **20 minutes: 3~4 mL WBC enrichment**
- **25 minutes: 4~5 mL WBC enrichment**

Whole human blood (10 mL) was added to the PCR*opsis* BCS tube, mixed thoroughly with substrate and incubated at room temperature for 15~20 minutes. The substrate causes RBC to precipitate while keeping WBC in the top layer. The WBC enrichment layer has residual RBC.

Blood Cell Isolation: Negative Selection



NOTE: Depletion antibodies crosslink RBC & unwanted cell type(s). These antibodies are not sold by Entopsis LLC.

PCR*opsis* Blood Cell Separator tube can also be used to isolate unlabeled target cells without centrifugation, magnets or expensive beads. Tetrameric antibodies that complex RBC with unwanted cell types (e.g., granulocytes) can be used to precipitate unwanted cells along with RBC. This approach results in an enrichment of target cells in the top layer. These cross-linking antibodies are currently only sold by StemCell Technologies as part of the RosetteSep™ platform.

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