



## For remove and collect of Leukocytes



# LeukoCatch® II

You can remove Leukocytes only by filtering,  
NO centrifuge is necessary.

Moreover, you can collect trapped Leukocytes in the filter!!

Easy-to-Use  
Column type



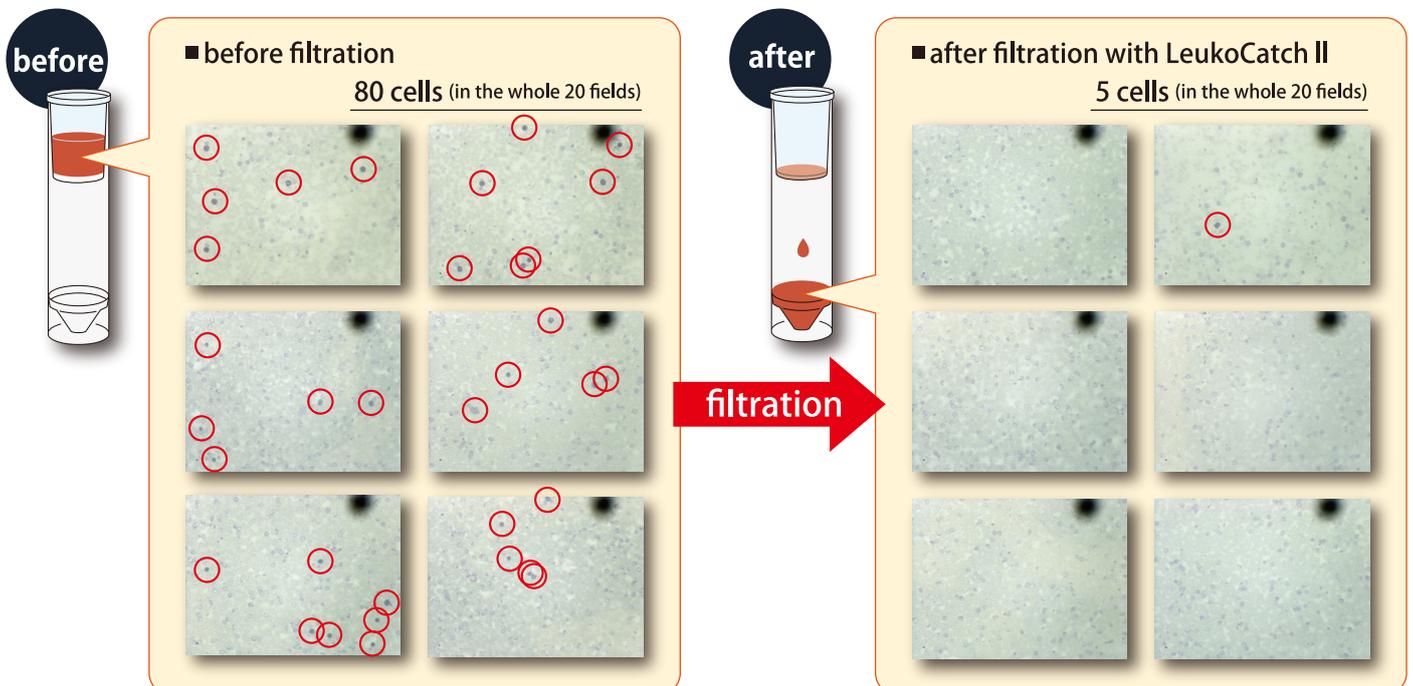
Leuko Filter

You can trap, remove and collect leukocytes specifically from whole blood by Leuko filter.

Cat No.	Item	Packaging
1883-110LC	LeukoCatch® II, 10 mL, Column Type <b>Sterilized</b>	5 pieces / bag

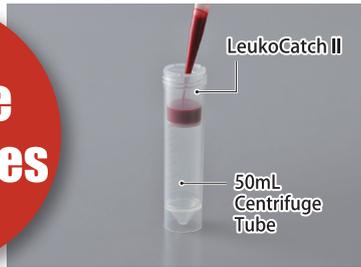
### The leukocyte count after filtration by LeukoCatch II

6 out of 20 fields randomly obtained from the microscopic observation of a mouse blood.



# Protocol

## Remove Leukocytes



① Set LeukoCatch II into a 50 mL centrifuge tube, and apply 10 mL of blood. (5 mL whole blood + 5 mL PBS(-))



② Filtering starts with natural dropping force. Filtering time is approx. 10 min.



③ Leuko Filter traps leukocytes. Consequently, leukocytes are almost removed from the filtrate.

## Collect Leukocytes

Collect Leukocytes which are trapped by filter of product.

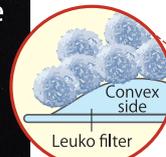


**There are concave side and convex side in Leuko Filter**

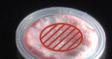
Convex side is upper side



After filtration of sample, a lot of leukocytes are attached to convex side (upper side).



Concave side is back side



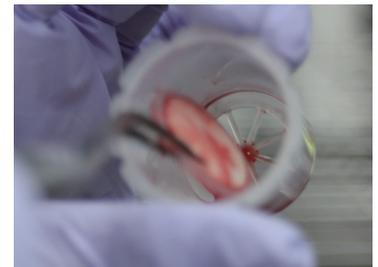
Leuko Filter is dented in center of the back side.



④ Add 2 mL of PBS(-) in order to wash the Leuko Filter trapped leukocytes. Repeat 1 time.



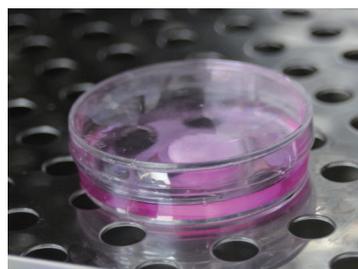
⑤ Pick up Leuko Filter with a pair of tweezers and remove Leuko Filter.



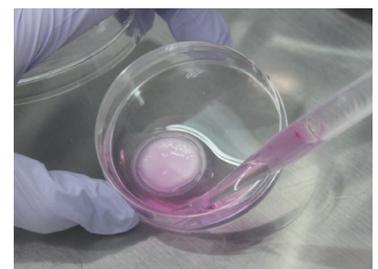
**Pay attention NOT to reverse the face of Leuko Filter.**



⑥ Pool the 5 mL of culture medium into a  $\Phi$ 60 mm dish. Put Leuko Filter in the culture medium.



⑦ Put the dish in the CO<sub>2</sub> incubator. (37 degree Celsius)



⑧ After 24 hours, it can collect about 60% leukocytes from whole blood without centrifugation.

**Note:** As cited from an article in *Advances in Bioscience and Biotechnology*, 2012.

“Nevertheless, these leukocyte separation procedures require laboratory-based professional and time-consuming procedures using instrumentation that is not routinely available at the bedside or in a common clinical facility. Moreover, their protocols are too complex to apply to an automated machine to treat hundreds of samples simultaneously.”

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**WATSON** BIO LAB  
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※The specification and the price etc. of the product might change without a previous notice.