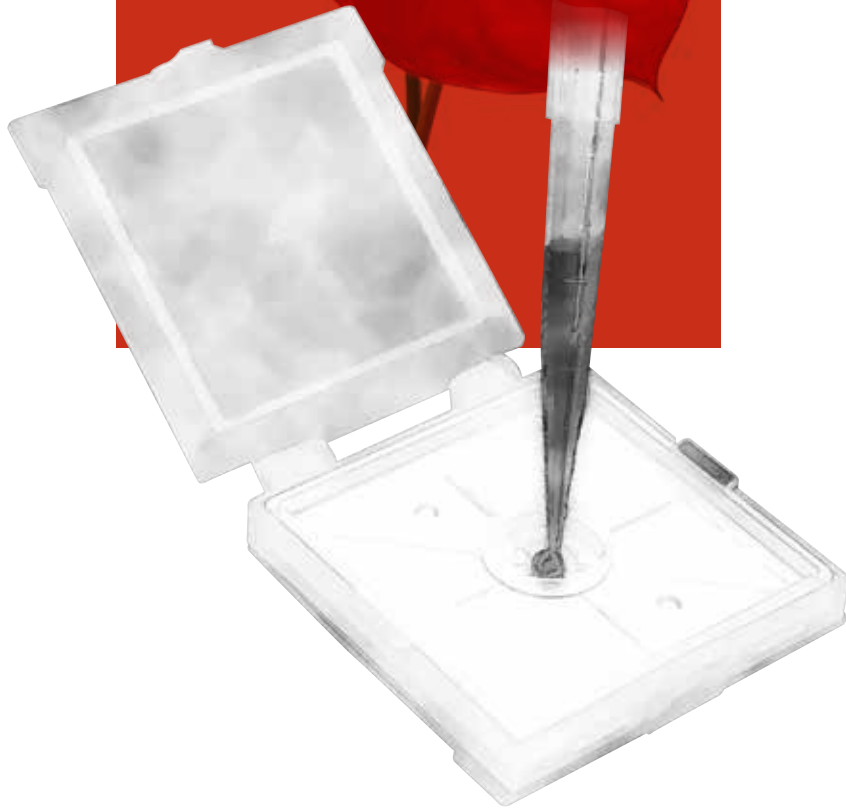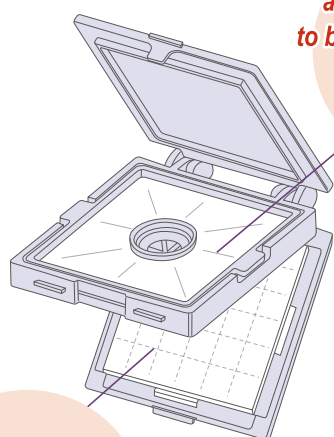# Blood Research Products

Plasma Filter

Plasma Separation Device   *Plasma Filter*

For recovery of microRNA.
Separating plasma from whole blood quickly without centrifuge.
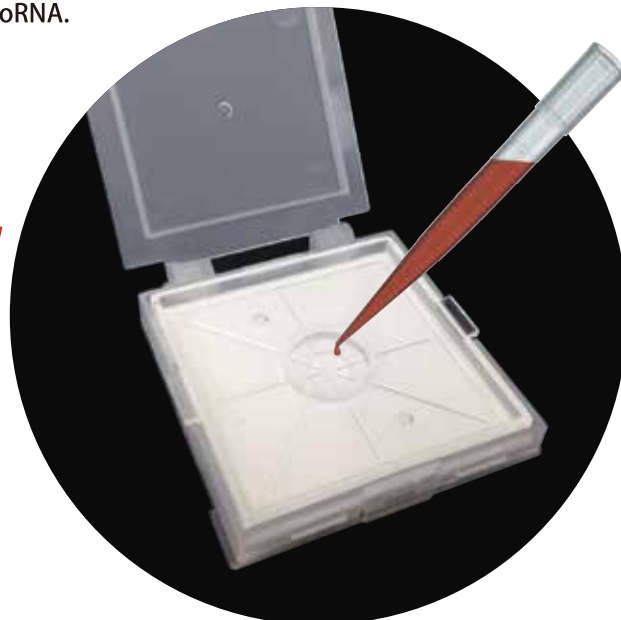
- For simple screening of cancer examination by microRNA.
- For transporting microRNA with room temperature.
- Applicable for circulating DNA.

A special slit structure allows whole blood to be diffused uniformly!

Reducing hemolysis*
by plasma separation plate

*The hemolysis may affect
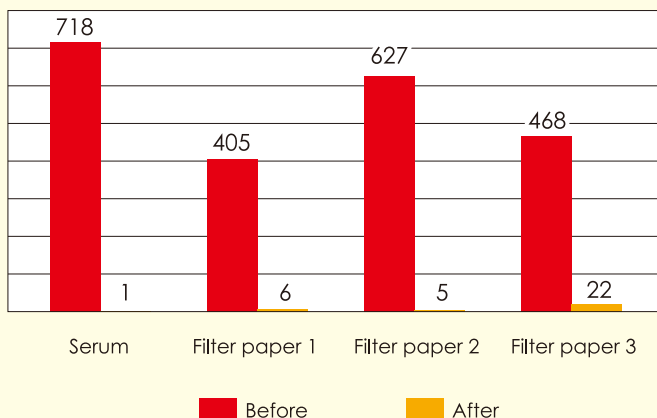the result of microRNA profile

Quick absorbing and drying plasma!

Perforated cellulose membrane
for easy-to-use

Cat. No.	Item	Packaging
176-600C	Plasma Filter	5 pieces / bag

For Quick cancer diagnosis

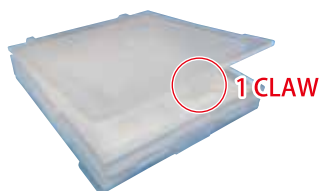## The study of microRNA preservation on cancer patients before/after medical treatment

The graph shows the tumor-specific microRNA expression, which measured by $\Delta \Delta$ CT method. The serum value after medical treatment is set as 1.
The expression of microRNA which value was high before treatment decreased after.
The same result was observed by the serum in the cellulose membrane of Plasma Filter.

Serum: 718 (Before), 1 (After)
Filter paper 1: 405 (Before), 6 (After)
Filter paper 2: 627 (Before), 5 (After)
Filter paper 3: 468 (Before), 22 (After)

Before   After

■**Protocol**

Separating plasma from whole blood

1 CLAW

Open the lid with 1 claw side

Recovery microRNA from the ingredients

2 CLAWS

Open the lid of 2 claws

Easily open from the corner.

Plasma Filter

1

Dent for blood injection

Open the lid and add 600 µL blood into the central rounded dent.[*1]

2

Blood spreads, leave it for about 5 minutes.

3

Remove

Dry

Remove the plasma separation plate, dry the separated plasma for about 1 hour on the cellulose membrane.
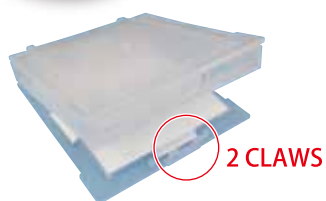
4

Sufficiently dried plasma is reservable[*2] and transportable with the lid covered.

[*1] Assuming that 600 µL whole blood is available, it is possible to recover microRNA which quantity is equivalent of microRNA in 200 µL plasma.

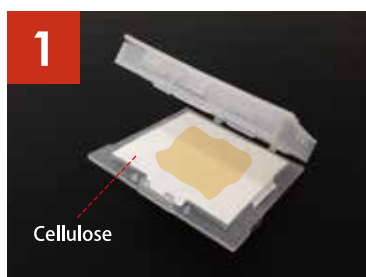[*2] The storage period is approximately 1 to 2 weeks at room temperature depending on setting conditions.

1

Cellulose

By opening the lid from 2 claws side, the cellulose membrane containing plasma is easily taken off. Cut the filter in any size along the perforation. microRNA can be extracted from the cellulose membrane by the specified elution kit.[*3]

[*3] If applying extraction liquid slightly extra, the microRNA extraction from cellulose membrane may become improved.