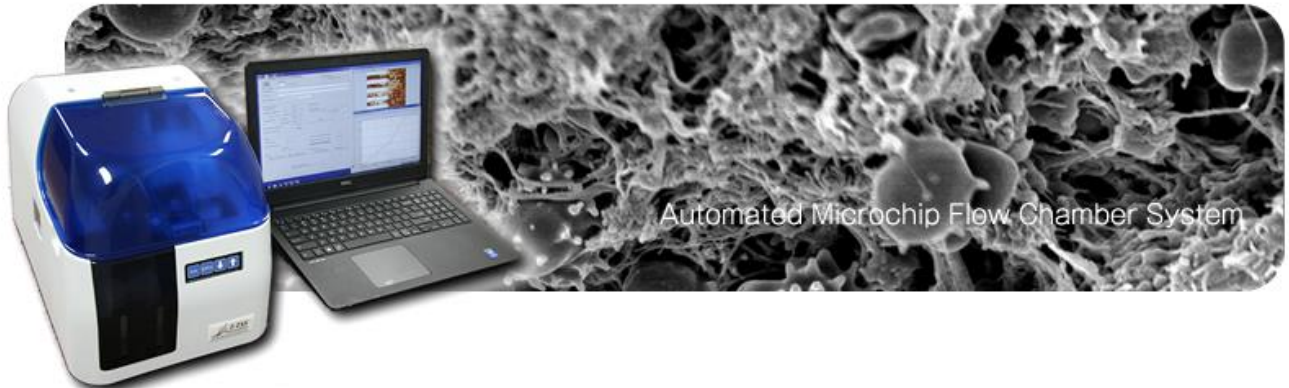


# T-TAS<sup>®</sup>plus



Using T-TAS<sup>®</sup>plus for research, the white thrombus formation occurring inside the chips simulating atherosclerotic lesions can be easily observed and quantitatively analyzed under shear condition.

## Features

1. White thrombus growth rate and stability are easily evaluated through pressure waveform and indicators
2. Real time visual observation of thrombus formation with CCD camera
3. Small amount of whole blood per assay (350 to 500  $\mu$ l)
4. Rapid measurement (10min to 30min)

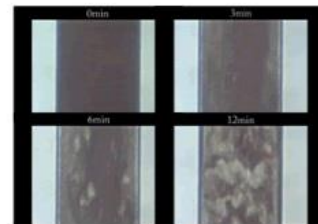


Image by microscope

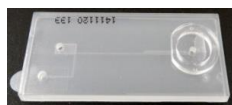
## Applications

2 types of chips for evaluation of different thrombus formations



PL chip (coated with collagen)

Application: observation and analysis of platelet thrombus formation mainly composed of activated platelets



AR chip (coated with collagen and tissue thromboplastin)

Application: observation and analysis of mixed white thrombus formation mainly composed of fibrin and activated platelets

T-TAS<sup>®</sup>plus related products

Reservoir



Over-caps

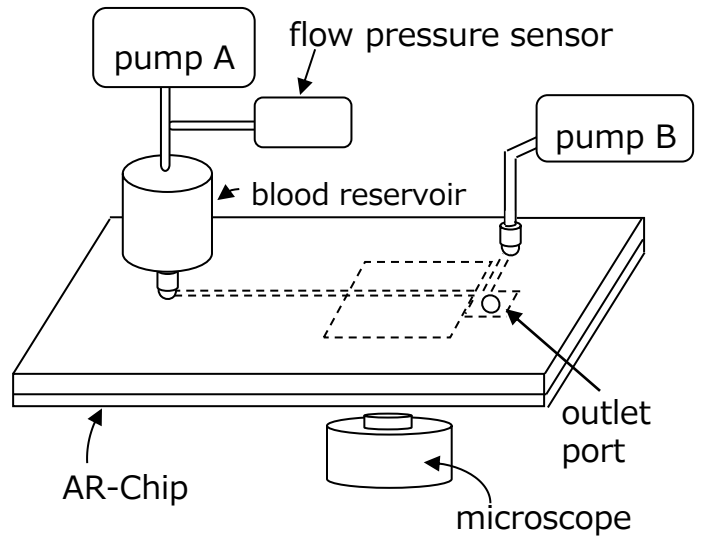


Waste liquid tanks (for AR chip)



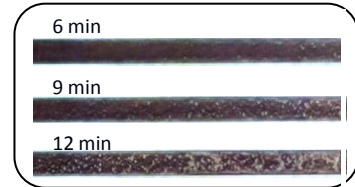
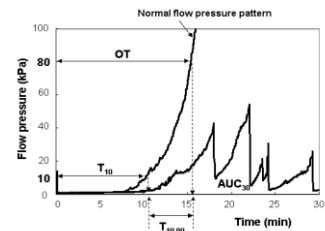
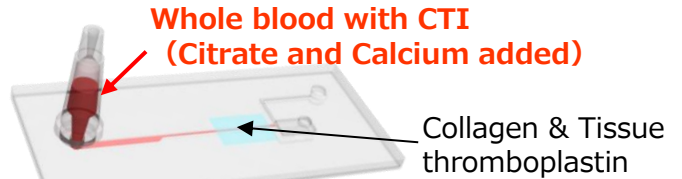
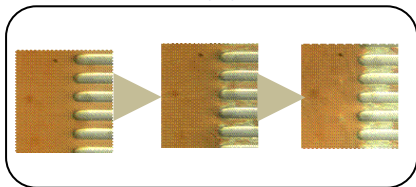
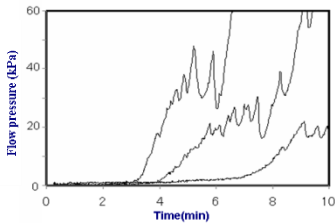
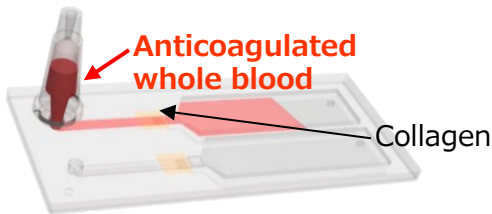
## ■ Measurement principle

As whole blood runs through the chip, thrombus formation slowly obstructing the collagen and tissue thromboplastin flow path produces an increase in pressure, which is in turn rendered on a graph. The resulting pressure waveform can be used to evaluate parameters such as start and end of occlusion time, time to thrombus formation, area under the curve (AUC), etc. In addition, it is also possible to visually observe the thrombus formation in real time with CCD camera.



## ■ Chip overview

**PL chip** : platelet thrombus formation    **AR chip** : mixed white thrombus formation



## ■ T-TAS<sup>®</sup>plus device specs

Dimensions	270 W x 380 D x 310 H (mm)
Weight	About 13 kg
Laptop	Software equipped Dell Latitude Laptop E3550 (OS Windows7 English version 32 bit)
Flow system	Flow pump; 1-1000 $\mu$ L/min / Pressure sensor; 1-150 kPa
Measurement time	AR chip <30min / PL chip <10min
Camera	Image resolution 1024 X 768, MPEG

Product manufacturer:



FUJIMORI KOGYO CO.,LTD.

Distributor:

Head office:

1-23-7 Nishi-Shinjuku, Shinjuku-ku, Tokyo,  
JAPAN