

Auto Lymphocyte Isolator

HANABI-CR-YH Auto Lymphocyte Isolator is the automatic equipment to isolate lymphocyte cell from peripheral blood, which is one of preprocessing for cell culture.

Lymphocyte layer solution is separated automatically by setting vacuum blood collection tubes with peripheral blood and separation tubes to this equipment.

Lymphocyte layer solution which is isolated by centrifuging process at constant temperature is recognized by camera automatically, and objective layer solution is only aspirated and dispensed.

There is no worry about contamination because the equipment keeps sterile condition inside it by ultraviolet exposure and clean bench and has structure to prevent bacterial proliferation.

There is also no worry about cross-contamination because this equipment uses disposable tips for each sample.

Protocol setting meets your purpose is possible because it has 3 sets of plumbing for culture solution (one of them can be refrigerated storage) and using culture solution is selectable.

Available to prevent human error as vacuum blood collection tubes and lymphocyte layer solution are controlled by reading ID codes.

This equipment enables us to process up to 24 samples of isolating lymphocyte for 1.5 hours.

Features:

- Stable isolating lymphocyte by mechanical movement
- Up to 24 samples process for 1.5 hours concurrently
- Settable a wide variety of protocols
- With structure preventing contamination
- No human error with ID code management



HANABI-CR-YH
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Manufacturer and Distributor

Sales Agency

ADSTEC

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HANABI-CR-YH Specifications

The main specifications are as follows.

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No.	Items	Specifications	Remarks
1	Used tubes	Blood collection tube: BD Vacutainer® (Becton, Dickinson and Co.) Isolating tube: BD Vacutainer® CPT (Becton, Dickinson and Co.) Storage tube: BD Falcon® 15ml conical tube (Becton, Dickinson and Co.)	75mm or 100mm height
2	Used tip	ep T.I.P.S.® (eppendorf AG.)	
3	Throughput capacity	1 - 24 samples	
4	Sample holder part	Available steam autoclaving	
5	Centrifuge speed	1200 - 3000rpm	Relative Centrifugal Force: 300 - 1800xg
6	Centrifuge part	4 - 20 degrees C	Sensors for detecting presence or absence of sample tubes
7	Injection and aspiration structure	Injection volume is adjustable Tips are replaced per sample at injection Including shutters for prevention of dripping at both parts	
8	Stirring structure	Pipetting	
9	Recognizing cell layer part	Using camera, lens, capture board, I/O board (trigger, lighting), image processing library	
10	Sterile structure	Clean bench (Inside of equipment is negative pressure, with air curtain), Ultraviolet exposure, Safety filter (HEPA filter, Activated charcoal filter)	
11	Sample ID management	QR code, DataMatrix (ECC200), MicroQR, PDF417, WPC (JAN/EAN/UPC-A/UPC-E), NW-7, ITF, Code39, Code93, Code128	
12	Control system	Using PC for controlling each motor, temperature controller, camera, sample ID management etc.	
13	Operating environment	15 - 30 degrees C, 20 - 80%RH	non-condensing
14	Storage environment	0 - 40 degrees C, 0 - 95%RH	non-condensing, non-icing
15	Atmospheric Pressure	800 - 1114hPa	2,000 meter or lower
16	Power Input Voltage	100 - 260V (equipped transformer)	50 / 60Hz
17	Power Consumption	No measured	
18	External Dimensions	1400x2000x1200mm (WxHxD)	Without door knob and switches
19	Weight	No measured	