

Chromosome specimen making 16 Samples Metaphase Harvester

Chromosome specimen maker 16-Samples Metaphase Harvester **HANABI-PI** does the processing of cell harvesting from the cultured cell automatically, simplifying a complicated process and producing uniform cells. The main operation of Metaphase Harvester is the constant temperature centrifugal separator structure, a PBS and hypotonic treatment using pre-heated PBS and hypotonic solution that enable fixation processing with cooled fixative solution. The centrifugal separator section is located at the center with 4 sets of centrifugal sections, 4 tubes per set, capable of producing 16 specimens at one time by injecting solutions and exhaust solutions.

By using the **HANABI-PI**, a large amount of stable chromosome specimens can be produced enabling cell harvesting.

Features and Benefits

- 16 sample walk-away harvest capability
- Automated sample:
- Centrifugation, Vortexing, Aspiration, Injection
- Constant temperature centrifugal chamber
- Pre-heated PBS/Hypotonic treatment
- Fixation with cooled fixative solution
- Built-in control panel
- 6 adjustable harvesting protocols
- Low maintenance



HANABI-PI

EU Model: Attached Microbiological Safety Filter

Manufacturer and Distributor

Sales Agency

ADSTEC

ADSTEC Corporation

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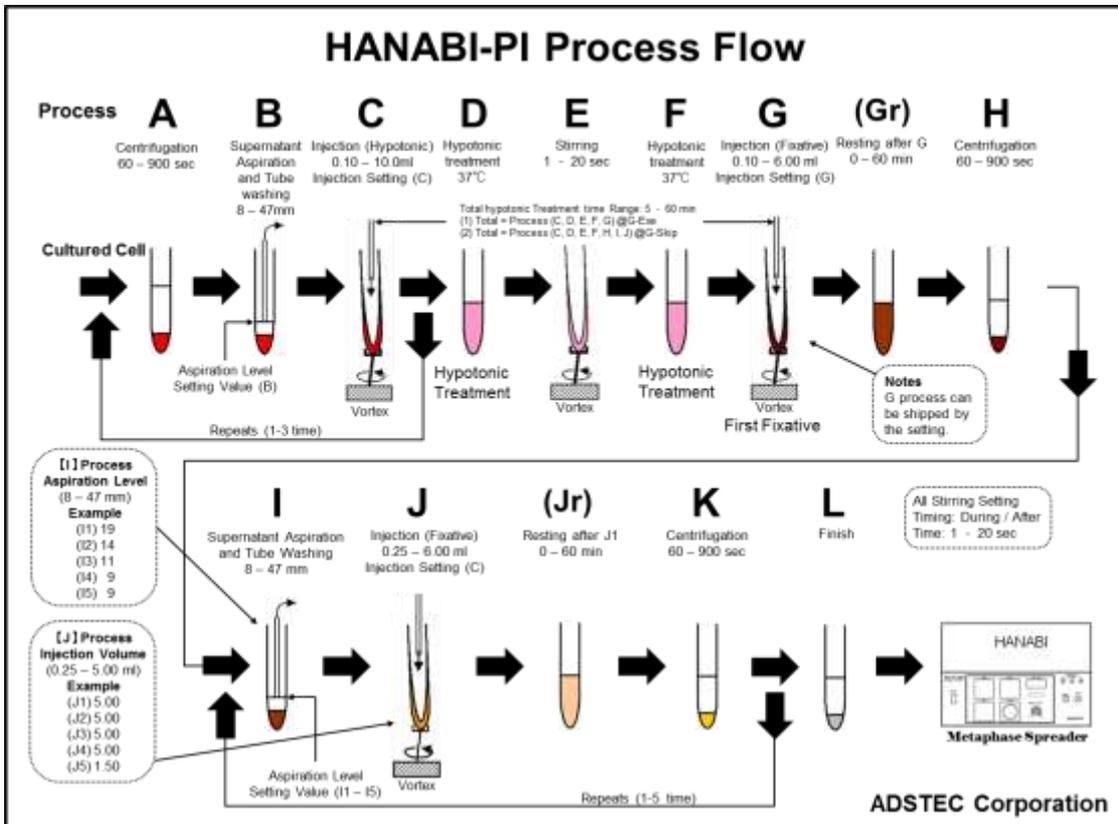
HANABI-PI Specifications

The main specifications are as follows.

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#	Items	Specifications	Remarks
1	Centrifuging tube	15 ml	FALCON (Polypropylene)
2	Culture cell suspensions	10 ml (Max.)	Typical 5ml
3	Number of samples	16 samples	4, 8, 12, 16
4	Total processing time	1.5hrs (Approx.)	16 samples, 30min hypotonic
5	Centrifuge G	320 xg (Approx.)	1400rpm (r = 17 cm), Max. = 1500rpm
6	Injection pumps	2 (0.1ml/rev)	PBS/Hypotonic x1: 0.1ml - 10ml (+/- 3%) Fixative x1: 0.1ml - 6ml (+/- 3%)
7	Aspiration pumps	4	Twin pump x2
8	Hypotonic preheat temperature	37°C	Preheating metalblock part, Select ON/OFF
9	Centrifuge section temperature	37°C	Air Bath, Select ON/OFF
10	Stirrer (Vortex type) Orbital	6mm	Stirring speed: 0 - 2100rpm
11	Stirring speed select	2	Default: SC1=1500, SC2=2100rpm
12	Protocol Select	6	A, B, C, D, E, F
13	Operating environment	15 - 30°C, 20 - 60%RH	non-condensing
14	Storage temperature	0 - 40°C, 0 - 95%RH	non-condensing, non-icing
15	Atmospheric Pressure	800 - 1114hPa	2000 meters or lower
16	Pollution Degree	2	non-conductive levels
17	Input Voltage	100 - 120, 200 - 240 VAC	Voltage and 50/60Hz are option of the order
18	Power consumption	800W	
19	Externals size (WxHxD)	850 x 700 x 1600mm (W x D x H)	Without reagent shelf, handle and Safety Filter
20	Weight	300 Kg (Approx.)	
21	Safety Filter (Option)	HEPA + Carbon filter	for EU model
22	Safety Standards	CE marking	EN61010-1, EN61000-4
23	Protocol Data Reading (Option)	USB	Option

Process flow



Please use the HANABI for the spreading of the chromosomes.