

HANABI-P1

Metaphase Chromosome Harvester

ADS Biotec offers the most advanced and state-of-the-art technology in cytogenetics automation. The HANABI-P1 Metaphase Chromosome Harvester is designed for today's cytogenetic laboratories that require increased productivity and throughput — plus it delivers the consistent, professional quality you demand every time.

The HANABI-P1 benchmark technology fully automates the multi-step process of preparing and harvesting metaphase cells derived from blood and bone marrow cell cultures and from other cell suspension cultures for cytogenetic analysis.

The HANABI-P1 is specifically created for small to mid-size throughput, enabling processing of up to 16 suspension cultures per run and eliminating variability compared to manual processing methods. Walk away reliability and low maintenance reduces FTE time associated with the manual harvesting process up to 75%.

The HANABI-P1 can be integrated with additional options such as reagent sensors, waste fluid tank sensors, extra fixative line, the HANABI-SP2 (auto-fixative mixer), and the ultimate HSI feature for accurate data tracking and storage.

Features and Benefits

- Increased laboratory productivity
- 16 sample walk-away harvesting capability
- Automated sample processing: Centrifugation, Vortexing, Aspiration, Injection
- Highly consistent results
- Touch screen control panel
- 6 adjustable harvesting protocols
- Low maintenance and ease of use
- Running data collection (HSI feature)
- Designed to accommodate our SP2 Auto-fixative mixer
- Additional features available



CE-IVD certified for the European market.

Increased Productivity with High Quality and Consistency

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Specifications

Items	Specifications	Remarks
Centrifugal tube	15 mL	Falcon (polypropylene)
Culture cell suspension	10 mL (max.)	Typical 5 mL
Number of samples	16 samples	4, 8, 12, 16
Total processing time	1.5 hrs (approx.)	16 samples (30 min hypotonic)
Centrifuge G	320 xg (approx.)	1,400 rpm (r=17 cm), max=1,500 rpm
Injection pumps	2 (0.1 mL/rev)	PBS/hypotonic x 1: 0.1 mL-10 mL (+/- 3%) Fixative x1: 0.1 mL-6 mL (+/-3%)
Aspiration pumps	4	Twin pump x2
Hypotonic treatment temperature	37° C	Preheating, select ON/OFF
Centrifuge section temperature	37° C	Air bath, select ON/OFF
Stirrer (vortex type) orbital	6 mm	Stirring speed 0-2,100 rpm
Stirring speed selection	2	Default; SC1=1,500, SC2=2,100 rpm
Protocol selection	6	A, B, C, D, E, F
Operating environment	15-30° C, 20-60% relative humidity	Non-condensing
Storage temperature	0-40° C, 0-95% relative humidity	Non-condensing, non-icing
Atmospheric pressure	800-1114 hPa	2,000 meters or lower
Pollution degree	2	Non-conductive levels
Input voltage	100, 120, 230 VAC	Voltage and 50/60 Hz require order specification
Power consumption	800 W	
External size (W x D x H)	850 mm x 700 mm x 1,880 mm	
Weight	320 kg (approx.)	
Safety filter	HEPA + carbon filter	
Safety standard	CE marked	EN ISO13485:2016, EN 13641:2002, SO 15223-1:2016, ISO 23640:2015, EN 62366:2008

Order Information

Product Description	Catalogue Number
HANABI-P1 Metaphase Chromosome Harvester	HNB-99-00P1-B
HANABI Harvester-HSI System Interface for P1, P2P and PIII Plus	LUP114
HANABI Harvester-SP2 Auto-Fixative Mixer for P1 and P2P	LUP152
HANABI Harvester-Reagent Empty Sensor Kit for P1 and P2P	LP20026
HANABI Harvester-Waste Tank Level Sensor Kit for P1 and P2P	LP20027



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