AUTOMATED ENZYME IMMUNOASSAY ANALYZER

AIA-900

SPECIFICATIONS

Main Specifications		Operation	Panel	
Assay principle	Fluorometric enzyme immunoassay (FEIA)	· ·		8.4 inch Color LCD with Touch Panel
Processing method	Automated continuous random access			
Processing capacity	Max. 90 tests/h.(1 Step ST reagents)	External Input/Output		
Maximum available parameters	5 parameters / sample 9 parameters / sample with 9tray Sorter type 19 parameters / sample with 19tray Sorter type			RS-232C (ASTM, Bi-directional Communication)
Detection method	Fluorescent measurement (top-to-top system)	Sorter Unit (Option)		
In vitro diagnostic reagent	AIA-PACK Series	9tray Sorter unit		Load up to 9 parameters or 180 test cups
Sample volumes	10 to 125 μL	19tray Sorter unit		Load up to 19 parameters or 380 test cups
Sampling	Using dedicated disposable conductive tip equipped with function of sample level detection			can be added or changed at any time by key request
Sample clot detection	Pressure detection	External F	limonoiono/M	/oight
Measuring conditions	Reaction temperature: 37 degrees Celsius Antigen-antibody reaction time: 10 min., 20 min. or 40 min. (depending on assay specification)	AIA-900 9tray Sorter type 19tray Sorter type		890 (W) × 665 (D) × 642 (H) mm / 122.5 kg 1290 (W) × 665 (D) × 642 (H) mm / 163 kg 1520 (W) × 665 (D) × 1247 (H) mm / 273 kg
Specimen dilution factors	2 per assay specification selectable in the 2 to 1000 range			(Including Dedicated Stand)
Specimen pretreatment	Automatic pretreatment (10 min. at 37 degrees Celsius)	Power Supply/Power Consumption		
				AC 100 - 240 V, 50/60 Hz, 300 VA
Analyzer Module		Operating	Environment	
Sample Loader	(0 1 11 12 12	Temperati		15 to 30 degrees Celsius
Specimen set count	100 specimens, (Sample + AIA-PACK)	Humidity Altitude		40 % to 80 % R.H. (with no condensation)
Sample containers	Test tubes :13 × 75, 13 × 100, 16 × 75, 16 × 100 mm (Diameter × Length) can be used in combination with dedicated sample cups			Up to 2000 m
		Conformity Standard		
Specimen barcodes	CODE39, CODE128, ITF, NW-7, JAN/EAN/UPC. Industrial 2 of 5, COOP 2 of 5.	EMC standard		IEC 61326-1: 2005 / EN 61326-1: 2006, IEC 61326-2-6: 2005 / EN 61326-2-6: 2006
	can be mixed with non-barcoded samples	Built-in barcode reader		IEC 62471: 2006
Handheld barcode reader	Option	D		
Reagent cup identification	Reading parameter code and lot with CMOS Camera	Product Numbers P/N Description		
Reagent / Tip Loader		0022930	0022930 Automated Enzyme Immunoassay Analyzer AIA-900	
Reagent set count	Holds a max. of 14 reagent types can be added or changed at any time by key request	0022931 0022932	AIA-900 9tra AIA-900 19tra *AIA-900 Ana	,
Substrate		0022933	AIA-900 Ana	
Placeable bottle	1 bottle	0022934		ray Sorter Stand
		0022004	, 1,, 1, 000 1911	ay contor otuna





0023066 AIA-900 9tray Sorter Stand

TOSOH CORPORATION Bioscience Division

3-8-2 Shiba, Minato-ku, Tokyo 105-8623, Japan

Phone: +81-3-5427-5181 Fax: +81-3-5427-5220

This brochure may not be reprinted or copied in whole or in part without written consent from Tosoh Corporation. Copyright 2011 by Tosoh Corporation





AUTOMATED ENZYME IMMUNOASSAY ANALYZER

AIA-900



Flexibility



Stand alone type

Max. 5 parameters / sample, 100 positions (sample + AIA-PACK)





Max. 9 parameters / sample, Load up to 180 cups



19tray Sorter type

Max. 19 parameters / sample, Load up to 380 cups (with dedicated analyzer stand and 19tray Sorter Stand)



Analyzer Stand

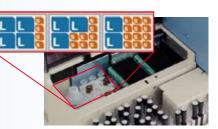
Dedicated sorter stand houses Diluent tank, Washer tank, Waste tank, and Waste box.

- High sensitivity, high precision with noise-reduction fluorescence detection method.
- All-in-one cup reagent realizes minimum reagent loss.
- Multi-function sampling mechanism. Conductive disporsable pipette tip realize both detecting sample volume and clot detection.
- Equipped barcode reader and bar-coded samples allow accurate patient identification without manual worklist entry.



Efficiency

- Max. 90 tests / hour (1 Step ST reagents), 5 parameters / sample (Stand alone type).
- First result within 20 minutes.
- Automated sample dilution & pretreatment.
- Load up to 14 bottles of SAMPLE DILUTING SOLUTION. CONJUGATE and PRETREATMENT.
- Load up to 192 disposable pipette tips (96 tips × 2 racks).



Easy to use

- Simple operation succeeded from AIA-600 II.
- User friendly, interactive touch screen.
- Automated daily maintenance.



- Bi-directional communication support QUERY mode analysis.
- Optional handheld barcode reader helps QUERY mode analysis and reduces calibration workload.













The AIA-PACK. A unique concept.

- · Lyophilized reagents allow long AIA-PACK shelf-life 12 months from the date of manufacture. 90 days calibration stability.
- · Most of the analytes require 10 minutes incubation time, delivering the first result within 20 minutes.
- · Low risk for contamination or carry-over between samples and reagents: 1 AIA-PACK = 1 test
 - The complete assay (incubation, wash and detection) is carried out in the AIA-PACK cup.
- · Disposable pipette tips for samples and reagents.
- · The single cup per test combined with low volume consumption of reagents reflects Tosoh's environmental awareness.
- · Extensive test menu provides a wide range of immunoassay tests including thyroid hormones, cardiac markers, tumor markers, reproductive hormones, and many more.



