



# AIA®-2000

FULLY AUTOMATED  
ENZYME IMMUNOASSAY ANALYZER

**Advanced**  
Immunoassay Testing



**TOSOH BIOSCIENCE**

[www.tosohbioscience.us](http://www.tosohbioscience.us)

# High Powered and Flexible Immunoassay Testing

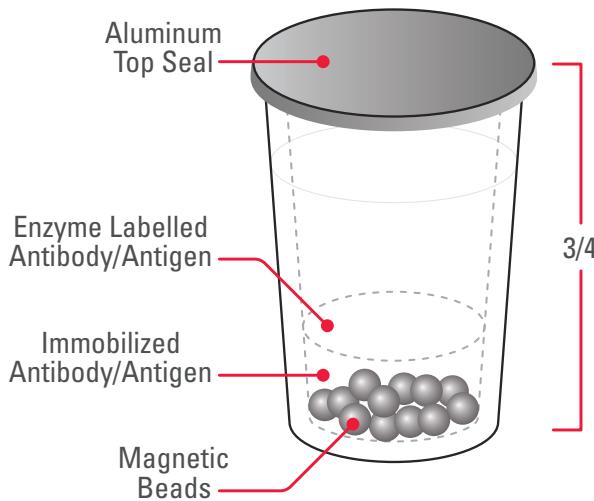
- Throughput of 200 results per hour
- Load up to 960 tests (48 trays)
- Automatic inventory management of reagents and supplies
- Additional substrate bottle prevents depletion
- Automated daily maintenance and record keeping
- Random access and continuous loading
- Dual sampling arms
- User defined programming
- True auto dilution from 2 to 1000
- Unit Dose Test Cup reagent system

## AIA-2000



# Time Tested Reliable Reagents:

## Tosoh Unit Dose Test Cup

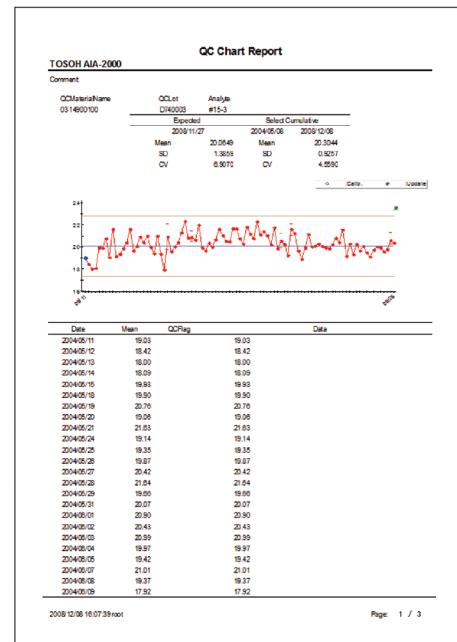


**Reagent Diagram**

- Dry reagent format requires no pre-mixing, no pre-measuring, no on board refrigeration and no waste.
- Calibration stability of up to 90 days for most assays.
- Reagents have one year shelf life from date of manufacture.
- Bar-coded for automated scheduling and inventory management.
- Extensive test menu includes thyroid, cardiac markers, tumor markers, reproductive hormones, anemia markers, and metabolic assays.
- Common to all Tosoh AIA Platforms

## Report with Confidence

- Sophisticated calibration and control monitoring.
- Customizable flags.
- Graphical depiction of results.
- All AIA instruments provide consistent results between testing platforms.
- Tosoh's technical team of experts ensures accurate result reporting.



**QC Result Print-out**

## Time is of the Essence

- Throughput of 200 tests per hour.
- First result in approx. 18 minutes.
- Minimal maintenance: Daily maintenance takes approx. 5 minutes.
- Multiple robotic arms and 3 incubators, handle the various sample processing steps quicker to speed up overall sample processing.
- Continuous processing allows specimens, tips and reagents to be added without interrupting work in progress.
- Multiple STAT processing available.

## AIA-2000 Operation: Simple and Intuitive

- Touch screen monitor allows easy instrument operation.
- Simple icons and color codes guide the operator.
- User friendly software.
- Automated daily maintenance.
- Automated pre-treatment.
- Automated dilution.
- Reflex testing.
- Customizable pop-up reminders for reagent inventory and calibration curve stability.

## Freedom to Walk Away

- 960 test cups give a walk away time of approx. 5 hours.
- 576 tips give a walk away time of approx. 3 hours.
- 2 substrate bottles give a walk away time of approx. 4 hours.
- 16 positions for secondary reagents.
- 20 sample racks (200 specimens) can be loaded at one time.
- Ask about Line Automation Model.

## AIA-2000



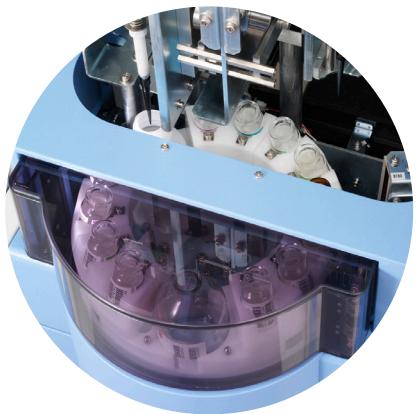
# AIA-2000



200 Sample Loader

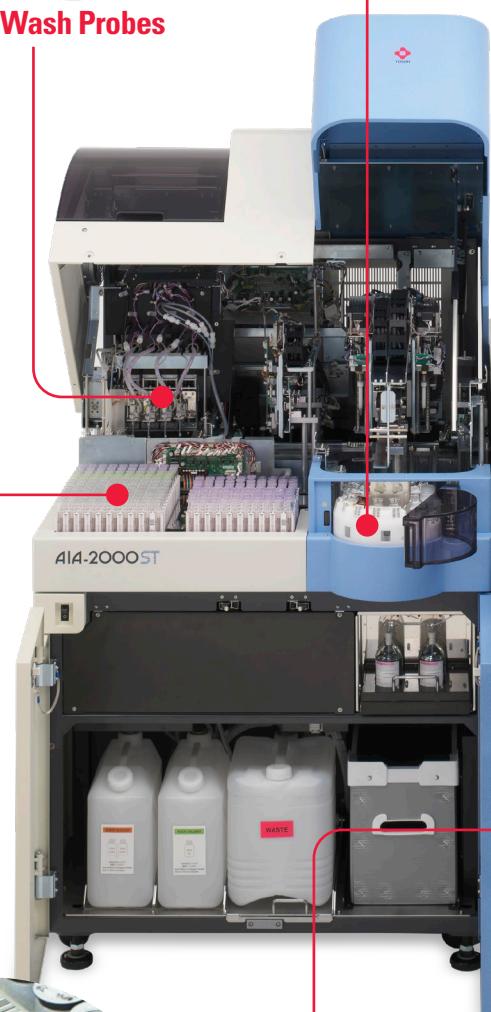


4 Wash Probes



Secondary Reagents

Touch Screen Monitor



960 Test Cups



## Main Specifications

Assay principal	Fluorometric enzyme immunoassay (FEIA)
Processing method	Automated continuous random access
Processing capacity	Max. 200 tests/h. (ST reagents)
In vitro diagnostic reagent	AIA-PACK Series
Sample volumes	10 to 125 $\mu$ L
Sample clot detection	Pressure detection
Measuring conditions	Reaction temperature: 37 degrees Celsius Antigen-antibody reaction time: 10 min., 20 min. or 40 min. (depending on assay specification)
Specimen dilution factors	2 per assay specification selectable in the 2 to 1000 range
Specimen pretreatment	Automatic pretreatment (10 min. at 37 degrees Celsius)
Detection method	Fluorescent measurement (top-to-top system)
Precision control	Multirule (Levey-Jenning's charts)



## Reagent Sorter

Reagent set count	Max. 48 trays (equivalent to 48 analytes or 960 tests) Can be added or changed at any time by key request
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## Tip Sorter

Tip	Dedicated tips
Tip set count	576 (96/rack, in 6 racks) Can be added or changed at any time by key request



## Sample Loader

Specimen set count	200 specimens, (add/change as required)
Sample containers	STAT: Using the Priority rack
Specimen barcodes	Test tubes :13x75, 13x100, 16x75, 16x100 mm (Diameter x Length)
	Can be used in combination with dedicated sample cups CODE39, CODE128, ITF, NW-7, JAN compatible (compliant with ASTM14466-92 and CLA guideline compliant barcodes) Min. element width: 0.191mm (0.254mm or over recommended)

## Reagent Carousel

Reagent set count	Holds a max. of 16 reagent types
	Can be added or changed at any time by key request
	RS-232C (ASTM) or Ethernet (HL7 V2.4)
	AC 100 - 240 V, 50/60 Hz
	700 VA (excluding controller PC and printer (option))
	Over voltage category II



## External Dimensions/Weight

AIA-2000 ST	1500(W) x 907(D) x 1260(H) mm / 400 kg
AIA-2000 LA	59.1(W) x 35.7(D) x 49.6(H) inches / 881.8 lb

## Operating Environment

Temperature	15 to 30 degrees Celsius
Humidity	40% to 80% R.H. (with no condensation)
Pollution degree	2
Dust	Average office level
Altitude	Up to 2000 m

## Conformity Standard

EMC standard	IEC61326-1: 2005 / EN61326-1: 2006, IEC61326-2-6: 2005 / EN61326-2-6: 2006
CISPR class and group categories	Class A, Group 1
FCC	Part 15, Sub Part B, Class A
Barcode Reader	Class 1: IEC60825-1: 2001



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