



# **AIA-CL300**

**AUTOMATED IMMUNOASSAY ANALYZER**

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## AIA-CL300 is the solution to meet your specific needs

The AIA-CL300 enhances your clinical laboratory capabilities and resources.

The AIA-CL300 is the ideal small immunoassay analyser to solve your specific needs and improve your laboratory and diagnostic efficiency.

This innovative desktop automatic analyser meets the needs from small to large laboratories, to perform routine analysis, cover emergency use, run specific pathologies and esoteric tests.

The AIA-CL300 benefits from the excellence and the unique technology of the AIA-CL range which have already made their proof in terms of ease of use, reliability, and analytical performance.

## INTUITIVE USABILITY

### · Features

- Installation in small spaces is possible with an instrument of 52 cm width
- High-resolution digital touch screen in full colour
- Well-defined maintenance
- State-of-the-art analyser with Windows OS
- On-screen inventory
- Programmable daily check

### Benefits

- User-friendly
- Ready to run at work-start time
- Advanced automation
- Fast reaction and turn around time



New substrate cup:  
enhancer and substrate (DIFURAT) in one twin cup

## EASY SAMPLE AND REAGENT LOADING

### Features

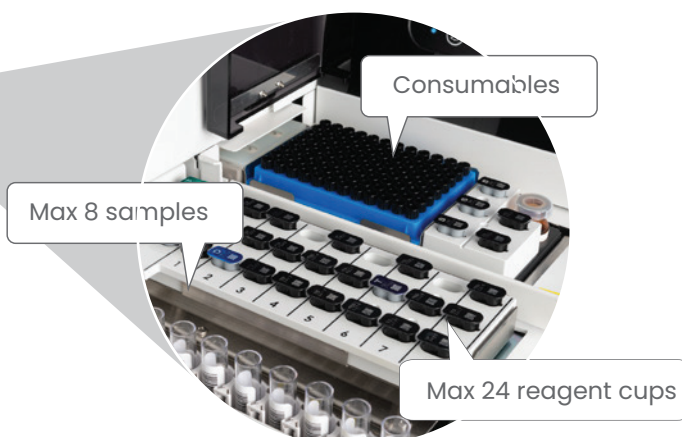
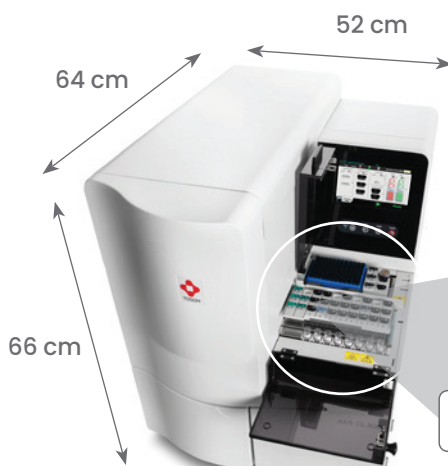
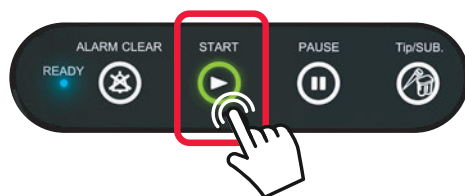
- Tips and substrate cups are placed in the rear table
- Sample and reagent cups are placed in the front table
- Washer, diluent, waste liquid, and waste box are placed in the easily accessible, front compartments
- Multiple sample tube types
- Internal and external barcode readers

### Benefits

- Continuous flow of high-quality results
- Minimal hands-on-time
- 1-hour walk away time



### INTUITIVE ONE TOUCH ASSAY START



## Reliability of results

The AIA-CL300 utilises the patented enhanced chemiluminescence technology. Sensitivity, reproducibility and build quality are following Tosoh's long history and high standards.

- Chemiluminescent enzyme immunoassays
- Integrated Quality Control program
- Automatically scans all cups and samples placed on board before assay starts
- Dedicated disposable conductive tips
- Traceability of all samples and data
- 24 hours a day, 7 days a week testing reliability
- Benefits from AIA-CL range features

auto-sample dilution cups

auto-pretreatment

auto-adjuster



**BEST VALUE**

- Reduce manual operations
- Improve precision and accuracy
- Prevent human errors

Sample dilution cup

Pretreatment cup

Adjuster set

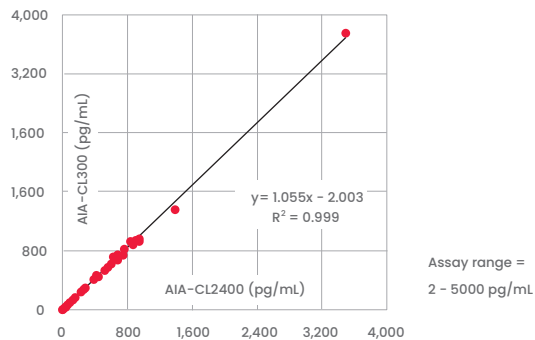


AIA-CL300 benefits from the lyophilised reagents and unitary base which offer an excellent long-term analytical stability.

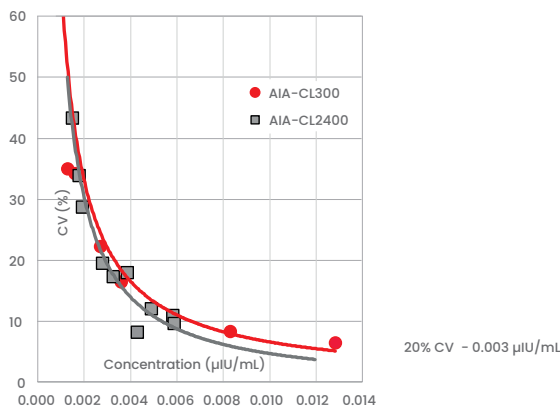
## Proven analytical performance

The AIA-CL300 is a small footprint analyser with long calibration stability and reagent expiration dates. It also needs a low sample volume and offers high precision and accuracy.

### BNP



### TSH



- 1 cup = 1 test principle allowing predictable consumption
- 90-days calibration stability for all assays
- 40+ scientific publications & evaluations
- Troponin I with LoD=1.61 pg/mL and LoQ at 10%CV = 5.55 pg/mL
- BNP using the same antibodies as the reference method (Shionogi patent) with an assay range of 2-5000 pg/mL
- Fertility panel for the diagnosis of ectopic pregnancies or monitoring of in-vitro fertilisation
- hCG assay range = 3-10,000 mIU/mL without hook effect

Unrivaled assay LOD, sensitivity, repeatability, with extreme attention to minimise interferences, offer improved clinical significance of results.

## AIA-CL300 PACK Test Menu

### THYROID

- TSH
- FT4
- FT3
- T4
- T3
- Tg II
- Anti-Tg
- Anti-TPO

### TUMOUR MARKERS

- CEA
- AFP
- CA 125
- CA27.29
- CA 19-9
- $\beta$ 2-microglobulin
- fPSA
- PAP
- SCC
- Total PSA

### FERTILITY HORMONES

- FSH
- DHEAS
- Estradiol
- LH
- Progesterone
- Prolactin
- SHBG
- Testosterone

### INFECTIOUS

- HbsAg2
- HbsAb
- HbeAg
- HbeAb
- HbcAb
- **HIV**  
Coming end of 2024

### HEPATITIS

- Anti-HBc
- Anti-HBs
- HBsAg
- Anti-HCV

### ANAEMIA

- FER
- FOLLATE
- Vitamin B12

### CARDIAC

- CK-MB
- MYO
- BNP
- TnI3
- DD

### OTHER HORMONES

- ACTH
- CORT
- hGH
- iPTH

### DIABETES

- C-Peptide
- Insulin

### SEPSIS

- KL-6
- Prepesin

### ALRG

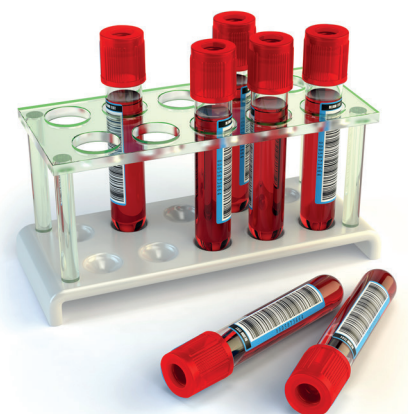
- IgE

### TOURCH

- CMV IgG
- Toxo IgG
- Rubella IgG

### BONE

- PTH
- Vitamin D total



## SPECIFICATIONS

### Method

Assay principle	CLEIA
Reagent type	AIA-CL Twin cup
Available IVD reagents	> 50 assays
Test principle	1 CL AIA-PACK® cup = 1 test
Immunochemical determination	Entirely inside CL AIA-PACK
Signal detection	Substrate (DIFURAT®) + Enhancer
Processing method	Automated continuous random access

### Capacity


Time to first result	Approx. 15 minutes
Processing capacity	Max. 30 tests/hour
Number of analytes per sample	Max. 6
Sample volume	5 - 50 µL
Samples	Max 8 (on-board)
Sample pre- and post-dilution	Auto (4 to 625x)
Sample pretreatment	Auto
Reagent rack	<i>Sample assay: Max. 24 cups</i> <i>Calibration assay: Max. 30 cups</i>
Washer and diluent	750 mL tank (manual preparation)
Substrate and enhancer	Max. 3 cups (11 tests/cup)
Tip rack	Max. 96 tips
Power supply input/consumption	100 to 240 V AC, 50/60 Hz / 300 VA
Barcode readers	Internal and external (handheld)
Operating environment	15-30°C, 40-80% R.H., up to 2000m alt.
External communication	RS-232C, USBs, RJ45/LAN

### Dimensions


Width	52 cm
Depth	64 cm
Height	66 cm
Weight	72 kg (159 lbs)




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