



# FACA-301

## Fully Automatic Chemistry Analyzer



Labomed introduces an automatic biochemistry analyzer with varying testing capacities. FACA-301 conducts 300 tests/hr with True Random Access .

### Features

- *Random Access and Direct Reading System.*
- *Automatic Washing System for Both Sample and Reagent Probe.*
- *Liquid Level Detection and Collision Protection for Both Sample and Reagent Probe.*
- *Reliable Cooling System for Reagent Chamber.*
- *Works with Windows XP and Windows 7*
- *Powerful Reaction Cuvette Washing System.*
- *User-Friendly Interface.*
- *ISE module and barcode scanner (optional)*
- *Enzyme Kinetic GPT and GOT testing*

**Labomed, Inc. is certified by ISO 9001-2013, has CE Conformity and is FDA Licensed**

### Accessories

- *15 Reagent bottle 2 with holder*
- *80 Reaction cuvettes*
- *1000 Serum cups*
- *1 Tube*
- *4/4 Fuse (4A/8A)*
- *1 Lamp (13.8V/50W)*
- *2 Power Cables*
- *1 Com Cable*
- *1 Piston (1 ml)*
- *1 Bottle*
- *1 User Manual*
- *1 Operation Software CD*
- *1 Tool*
- *1 Sensor*
- *2 Detect Probes*
- *1 Sample Probe*
- *1 Black Cup*
- *1 Sinkage Block*



**1 Reagent Tray**

40 reagent positions for FACA-301 and FACA-261  
 80 reagent positions for FACA-401  
 Cooling system may work independently for 24 hours.

**2 Sample Tray**

60 sample positions for FACA-301 and FACA-261  
 88 sample positions for FACA-401

**3 Cuvette**

Either high quality UV-transmitted plastic  
 cuvettes or quartz glass cuvettes available.

**4 Independent Mixer**

1 mixer for FACA-301 and FACA-261  
 2 mixers for FACA-401

**5 Sample probe/ Reagent probe**

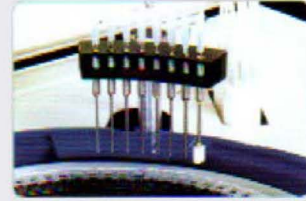
1 sample probe and 1 reagent probe for FACA-301  
 1 sample probe and 2 reagent probes for FACA-401  
 Only 1 sample / reagent probe for FACA-261

**6 ELE Module**

ELE module available on request.

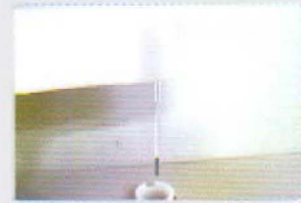
### Cuvette Washing Station

8 channels automatic washing station.



### Independent Mixer

Independent mixer ensuring quick and complete reaction.



### Reaction Cuvette

High quality UV-transmitted plastic cuvettes, or quartz glass cuvette (optional).



### Sample Probe / Reagent Probe

With liquid level sensor, anti-collision sensor and automatic cleaning function.



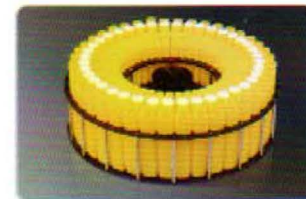
### Reagent Bottle

More convenient and economical ready to use reagent kits.



### Reagent Tray

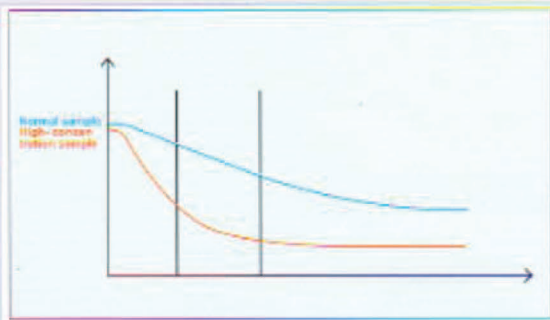
With cooling reagent chamber.



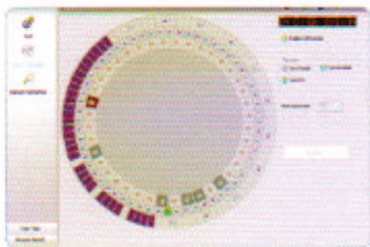
## Software



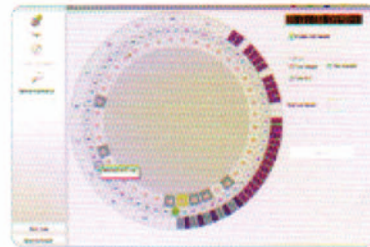
**User-Friendly Interface**  
**Compatible with Windows XP, Vista or Windows 7**



**Variable reading function**



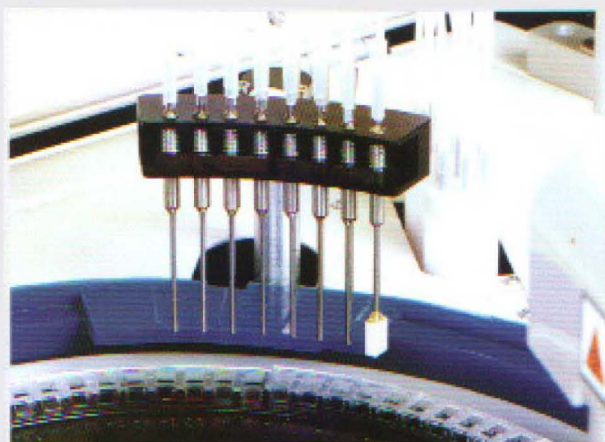
**Carry Over Control Function**



**Automatic Alarm for Malfunctions**

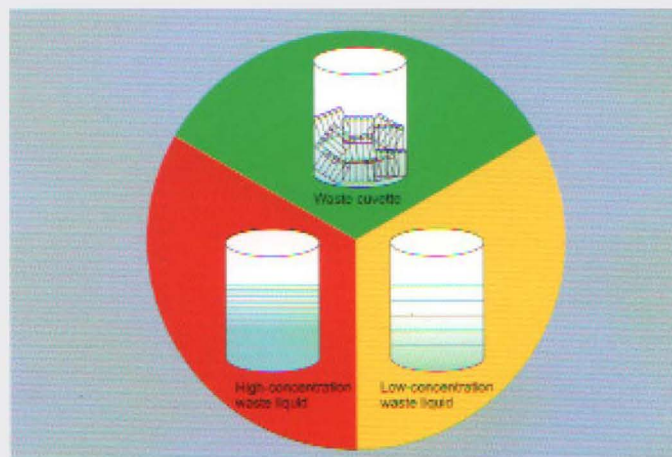


## Automatic Washing Station



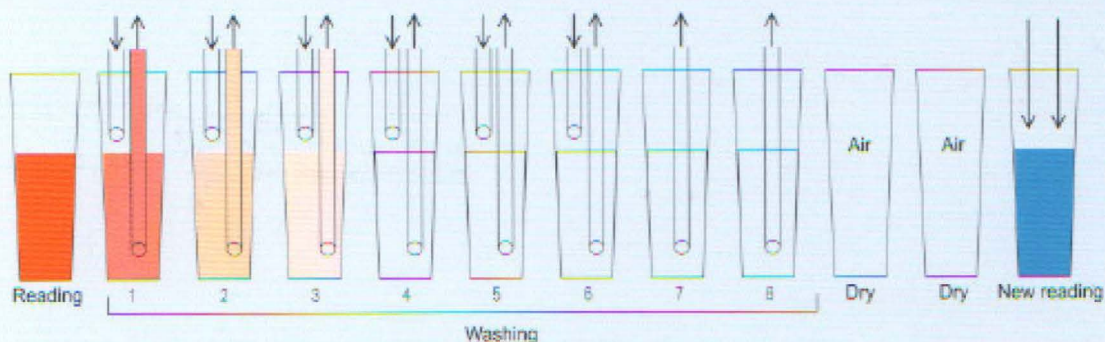
An 8-channel washing station ensures complete washing for cuvettes.

## Environmental Protection Design



The waste is automatically classified and collected into different containers.

## Automatic cuvette washing and blanking makes more precise results

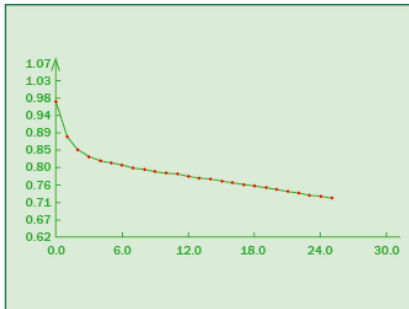


Wavelength	Reading	Wash1	Wash2	Wash3	Wash4	Wash5	Wash6	Wash7	Wash8	Dry	Dry	New reading
340nm	1.3100	0.025	0.0092	0.0037	0.0022	0.0008	0.0006	0.0005	0.0002	0.0800	0.0850	/
405nm	0.6920	0.0112	0.0075	0.0033	0.0019	0.0010	0.0005	0.0003	0.0002	0.0800	0.0805	/
450nm	0.5281	0.0108	0.0066	0.0031	0.0015	0.0009	0.0003	0.0003	0.0002	0.0806	0.0805	/
510nm	0.7005	0.0113	0.0055	0.0027	0.0012	0.0006	0.0002	0.0002	0.0001	0.0810	0.0811	/
546nm	0.5368	0.0184	0.0072	0.0043	0.0013	0.0008	0.0002	0.0002	0.0002	0.0840	0.0843	0.5090
578nm	0.0136	0.0135	0.0064	0.0031	0.0012	0.0006	0.0002	0.0002	0.0002	0.0800	0.0800	/
620nm	0.0189	0.0189	0.0054	0.0026	0.0010	0.0005	0.0002	0.0002	0.0002	0.0800	0.0800	/

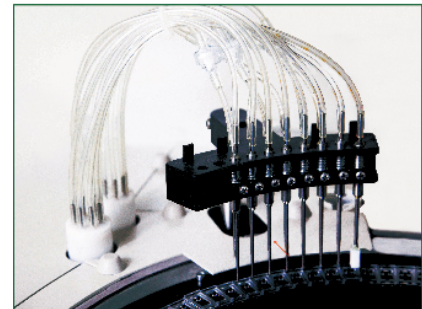
Test O.D. value-Real reagent blank=True O.D.value

**General Features:**

- New concept and more friendly software.
- New techniques and spare parts are used for much better quality and function.
- Automatic washing station for both sample and reagent probe.
- Liquid level detection and collision protection for both sample and reagent probe.
- Reliable cooling system for reagent chamber.
- Powerful reaction cuvette washing system.
- ISE module and barcode scanner(optional).
- Lower waste and more environment friendly.
- New concept test control system available (on request).



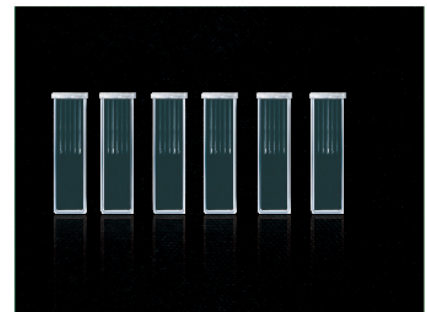
Reaction Cure Visible on line.



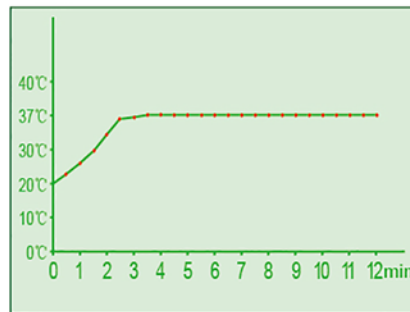
Cuvette Washing Station:  
8 channels automatic washing station.



Independent mixer ensuring full reaction of sample / reagent solution.



High quality UV-transmitted plastic cuvettes, or quartz glass cuvette ( optional ).



Quickly heating up and thermostable technique to ensure reaction solution reach  $37\pm 0.5^{\circ}\text{C}$  within 160s and stable at  $37\pm 0.2^{\circ}\text{C}$  more than 1200s.



Sample probe / reagent probe with liquid level sensor, anti-collision sensor and automatic washing function.



Reagent tray can be easily placed in cooling chamber.



### Technical Specifications

<b>Model</b>	<b>FACA301</b>	
<b>Assay Model</b>	Random access with direct reading system	
<b>Method</b>	End point, Kinetic, Fixed time, Immunoturbidimetric, 1-2 reagent, Multistandard, reagent/serum blank, etc	
<b>Assay Item</b>	40 assay	
	ISE mould (Na <sup>+</sup> , K <sup>+</sup> , Cl <sup>-</sup> / Li <sup>+</sup> ) available on request	
<b>Throughput</b>	<b>1 Reagent</b>	300 test/h (max)
	<b>2 Reagent</b>	240 test/h
	<b>With ISE</b>	+120 test/h
<b>Sample Position</b>	60	
	Including standard, control and stat; either serum cup or primary tube available	
<b>Sample Volume</b>	1~100ul, 0.1 ul / step	
<b>Reagent Position</b>	40 or 80 (optional)	
<b>Reagent Volume</b>	R1: 1~400ul, 1 ul / step, R2: 1~400ul, 1 ul / step	
<b>Reagent / Sample Probe</b>	With liquid level sensor, collision sensor, teflon coating and automatic washing station	
<b>Reaction Time</b>	0~999 seconds	
<b>Cuvette</b>	High quality uv-transmitted plastic cuvette. Quartz glass cuvettes on request	
<b>Cuvette Washing</b>	8 channels automatic washing system for reaction cuvettes	
<b>Probe And Mixer Washing</b>	Independent washing station for each sample/reagent probe and mixer	
<b>Alarm</b>	Automatic alarm for malfunction (eg: collision, reagent / sample insufficiency, full waste container, etc)	
<b>Calibration</b>	Linear, Non-linear, Multi standard, K factor	
<b>Sample Dilution/Retest</b>	Sample can be diluted and retested if results are out of range or sample is insufficient. Also with calibrator auto diluting function	
<b>Wavelength</b>	340~810nm	
<b>Light Source</b>	Halogen lamp	
<b>Absorbance Resolution</b>	0.0001A	
<b>Absorbance Accuracy</b>	±0.0003A(0~2.5A)	
<b>Repeatability (CV %)</b>	≤2%	
<b>Quality Control</b>	Levy Jennings quality control program at 3 levels	
<b>Bar Code</b>	Optional	
<b>Printer</b>	Multiple report formats available	
<b>Test Control Function</b>	New card control system available on request	
<b>Language</b>	English, French, Spanish, German, Russian, etc	
<b>System</b>	Windows XP or Vista ; Windows 7	
<b>Power Supply</b>	220V / 50Hz or 110V / 60Hz (optional)	
<b>Dimension</b>	85×72×53 (cm)	
<b>Weight</b>	90Kg	

US & Europe Patents Pending

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