

Laborned introduces an automatic biochemistry analyzer with varying testing capacities. FACA-261-ISE conducts 370 tests/hour with True Random Access and 12 filters as follows: 340nm, 380nm, 405nm, 505nm, 520nm, 546nm, 576nm, 620nm, 700nm, 750nm, 800nm.

Features

- Each set of FACA will come with one video to train in the installation, operation, and maintenance of the biochemistry analyzer.Random Access and Open 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
- 80 Cuvette positions, semi-disposable plastic for min 30,000 tests/80 Cuvettes
- 8-step Cuvette wash station with two types of Systemic and special washing solution
- On-board refrigeration of reagents with independent switch [9° C below ambient temperature]
- External sample barcode reader, with positive identification of samples
- Powerful Reaction Cuvette Washing System

- User-Friendly Interface
- ISE module and barcode scanner (optional)
- Enzyme Kinetic GPT and GOT testing
- Automatic pre- and post-dilution
- Primary tubes up to 16 x 100mm and sample cups
- Preinstalled and validity limits for methods and reactions programmable
- Intelligent flagging system and extensive error log
- Reagent integrity check and extensive QC monitor
- Water consumption ≤ 3 liter/h
- Complete reaction curve and statistics for every sample/test---not only QC
- QC control function, based on Levy-Jennings chart analysis

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

Accessories

Item	Specification	Quantity
Reagent bottle 1	40ml	50Pcs
Reagent bottle 2 with holder	15ml	15Pcs
Reaction cuvette		80pcs
Serum Cup		1000pcs
Tube		1 set
Fuse (4A/8A)		4 sets
Lamp (13.8V/50W)	10-	1Pc
Power cable	1Pc	2Pcs
Com Cable		1Pc
User manual		1
Operation software		1
Tool		1 set
Sensor		1Pc
Detect Probe,		2Pcs
Sample Probe		1Pc
Ground Cable		Use your local sup



O Reprent Troy

40 reagent positions for FACA-301 and FACA-361 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-361 68 sample positions for FACA-401

O Civette

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

Independent Mixer

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

Sample proof Pringer proces

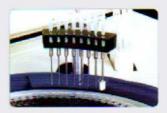
1 sample probe and 1 reagent probe for FACA-301 1 sample probe and 2 reagent probes for FACA-401 Only 1 sample / reagent probe for FACA-261

6 ELE Module

ELE module available on request.

Cuvette Washing Station

8 channels automatic washing station.



Indepndent 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.

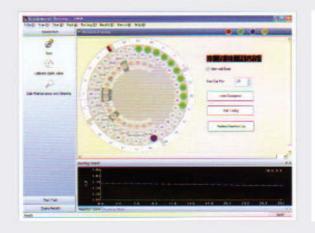


Reagent Tray

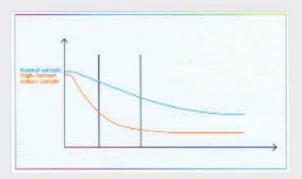
With cooling reagent chamber.



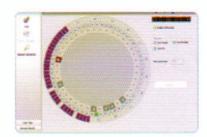
Software



User-Friendly Interface Compatible with Windows XP. Vista or Windows 7



Variable reading function



Carry Over Control Function

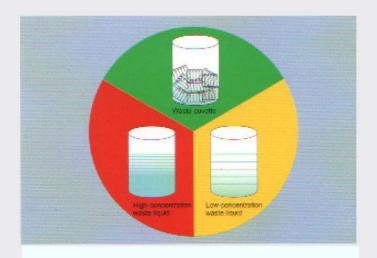


Automatic Alarm for Malfunctions

Automatic Washing Station

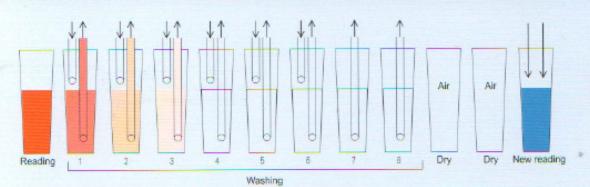
An 8-channel washing station ensures complete washing for cuvettes.

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	Wash?	Washil	Wash4	Wash	Wash6	Wash7	Washill	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	1
405nm	0.6820	0.0112	0.0075	0,0093	0.0019	0.0010	0.0005	0.0003	0,0002	0,0800	0,0805	1
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	0,0010	0,0811	1
546nm	0.5388	0,0184	0,0072	0.0043	0.0013	0.0008	0.0002	0,0002	0,0002	0.0840	0.0843	0.5080
578nm	0.0135	0.0135	0.0064	0.0031	0,0012	0.0006	0.0002	0.0002	0.0002	0,0800	0,0800	- 1
820om	0.0189	0.0189	0.0054	0.0026	0.0010	0.0005	0.0002	0.0002	0.0002	0.0800	0.0800	/

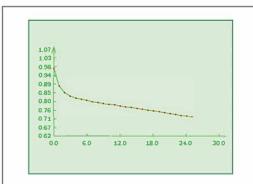
Test O.D. value-Real reagent blank=True O.D.value



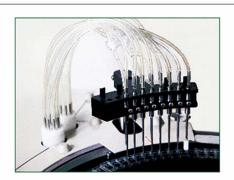
General Features:

- 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 Visiable on line.



Cuvette Washing Station: 8 channels automatic washing station.



Independent mixer ensuring full reaction of sample / reagent solution.



FEATURES

- Random-Access with open system.
- 90 Cuvette positions, semi-disposable plastic for min 30,000 tests/80 Cuvettes.
- 8-step Cuvette wash station with two types of Systemic and special washing solution.
- On-board refrigeration of reagents with independent switch [9°C below ambient temp.]
- Automatic pre- and post-dilution.
- Internal sample barcode reader with positive identification of samples.
- Primary tubes up to 16 x 100 mm and sample cups.
- Preinstalled & validity limits for methods and reactions programmable.
- Intelligent flagging s), stem and extensive error log.
- Reagent integrity check & extensive QC monitor.
- Water consumption < 1.6 L/h.
- Complete reaction curve & statistics for every sample/test-not only QC

TECHNICAL SPECIFICATIONS FOR FACA-261

ANALYZER TYPE

Analyzer Type: Fully Automated, Bench Top, Discrete, Random-Access with STAT functionality

open system, Clinical Chemistry Analyzer.

THROUGHPUT

Throughput: 370 tests/hour with ISE

ON-BOARD SAMPLES

Sample Positions: At least 60 sample positions for Primary tubes & Sample cups and option for additional.

Including standard, control and stat; either serum cup or primary tube available.

Sampling volume: 1 to $100 \mu l$, $0.1 \mu l$ /step

Pre-dilution & Post-dilution: Automatic Pre-dilution & Post-dilution of samples.

Simultaneus Paaramters: Max 30 different parameters can be performed simultaneously.

ON-BOARD REAGENTS

On-board Refrigeration: Min 30 positions with on board refrigeration at 90°C below ambient temperature

Reagent Volume: 1 to 350µl

OPTICAL UNIT

Wavelength Spectral Range: 340-900 nm

Filter Wheel: 9-12 positions filter wheel with 8 pre-installed supplied filters & 01 free position.

Minimum Filters Required: 8 filter with 340-800nm. Additional filters are available upon request.

Absorption Range (Linearity): 0.000 to 2.500 Abs Accuracy: ± 2 nm (wavelength)

Band Pass Precision: ±5 rnm

REACTION UNIT

Reaction Volume: $210-350 \,\mu$ l

Reaction Wells Positions: 90 Cuvette positions. semi disposable [> 30,000 tests].

Incubation Temperature & Time: $37^{\circ}\text{C} \pm 0.20^{\circ}\text{C} & 792 \text{ sec. max}$ incubation including reading time

WASH STATION

8-step Wash Station: 8-step wash station with 8 dispensing needles

Two types of Systemic (20L) & special washing solution (2L; and 20L waste with

2nd cleaning solution & extra washing definable in method.

Water Consumption: Max 1.6L/h

LIQUID HANDLING

Liquid Handling: Liquid transportation through pipetting arm with capacitive liquid level sensors,

Needle Shock/Collision Detection: Needle shock detector & vertical collusion detection for probe.

METHODOLOGY:

Measuring modes: Routine chemistry, Turbidimetry

Methods/Analysis modes: End Point (bichromatic) & Differential end point with self blank.

Fixed Time & Kinetic (Bichromatic).

Immunoturbidimetric, 1-2 reagent, Multistandard, reagent/serum blank, etc.

Calculation modes: Factor

Calculation algorithms: Linear (factor, linear, linear regression, average) and

Non linear (cubic spline, poly-linear, logit-log).

Programmable Test: 50 active Programmable Test methods on instrument with unlimited programmable

rofiles.

Standard Calibration Method: Up to 8 calibrator standards per test. All positions can be calibrated.

DATA PROCESSING & QUALITY CONTROL (QC)

Memory capacity: Storage in HDD

Memory: For Sample results, calibration, patient data, QC data, error-log, absorbance curves.

Reports: For Patient, single test, complete sample, work sheet, method and QC's,

calibration curves, kinetics, continuous printing

QC Level: Up to max 3 levels per test

QC Module: Levey-Jennings plots, Westward multirules, SD, CY% & Mean.

Warnings: Analytical limits, reagent and reaction integrity check

(blank, linearity, substrate depletion, reaction OD etc) with extensive QC monitor.

Unique versatile user software: New unique versatile touch screen user software with intuitive

smart graphical user interface.

Extended walk-away capability: Extended walk-away capability with free choice of execution order. **Digital and Ethernet Connections:** ASTM Bi-directional LIS, Ethernet of external PC, polling mode on LAN.

ACCESSORIES

Computer (OPTIONAL)

(must be purchased locally): Compatible Brand PC with touch screen min 17 inch LCD monitor,

on line appropriate UPS, Thermal Printer & Deionizer (Compatible).

Startup Reagents: Startup reagents with necessary calibrators and controls for installation and

functioning of machine.

REAGENTS

Reagents Required For Operation: Urea, Creatinine, total protein, albumin, tri-glyceride, total cholesterol,

Glucose (500 test each), Uric acid, S.Bilirubin, SGPf, SGOT, Alkaline phosphate (1000 test each); CKMB, LDH (2m test each)

WARRANTY PERIOD 3 (three) years full warranty including spare parts, repair & servicing after

installation & commissioning of the Equipment on terms. Brand & model is Labomed, Inc. USA, FACA-261.

QUALITY US-FDA/USA-CE certificate of the offered items must be submitted with the offer

ASSAY ITEMS 40 different diagnostic tests

CHANNELS/FILTERS 340nm, 380nm, 405nm, 505nm, 520nm, 546nm, 576nm, 620nmnm, 670nm,

700nm, 750nm, 800nm

REAGENT/SAMPLE PROBE With liquid level sensor, collision sensor, teflon coating and automatic

washing station

CUVETTE High quality UV-transmitted plastic cuvette. Quartz glass cuvette on request.

PROBE AND MIXER WASHING Independent washing station for each sample/reagent probe and mixer

ALARM Automatic alarm for malfunction (e.g. collision, reagent/sample insufficiency, full

waste container, etc.)

ABSORBANCE RESOLUTION 0.0001A

ABSORBANCE ACCURACY $\pm 0.0003A (0\sim2.5A)$

REPEATABILITY (CV %) ≤2%

BAR CODE Optional

PRINTER Multiple report formats available

TEST CONTROL FUNCTION New card control system available on request

LANGUAGE English, French, Spanish, German, Russian, etc.

OPERATING SYSTEM Windows XP or Vista; Windows 7

POWER SUPPLY 220v / 50 Hz or 110V / 60 Hz (optional)

DIMENSION 85 cm x 72 cm x 53 cm

WEIGHT 85kg

Technical Specifications

Model		FACA-261-I	SE					
Assay Model		Random access with direct reading system						
Method		End point, Kinetic, Fixed time, Immunoturbidimetry,1-2 reagent, Multistandard, reagent/serum blank,etc						
Assay Item		40 assay						
Assay item		ISE mould (Na ⁺ ,K ⁺ ,Cl ⁻ / Li ⁺)available on request						
Throughput Tests	/hour	250 tests/hour with one reagent						
With I	SE	370 tests/hour with one reagent						
		T.BILI	r-GT/GGT	CHO	Ca	APOB-1/B	CHE	
		D.BILI	ALP/AKP	TG	CL	APOB	CREA	
		TP	UREA	CK	Р	CK-MB	Mg	
		ALB	CREA	LDH	С	ASO	AFU	
Test Menu		Lactic Acid	ALT/GPT	UA	α-HBDH	CO₂	FMN	
		LP(a)	AST/GOT	GLU	AMY	LDL-C	HDL-C	
		CHE	LA	TBA	ADA	HS-CRP	PA	
		Fe	Cu	Zn	C3	C4	lgG	
		IgM	lgA	and dru	ıg,toxicity,et	С		
		60						
Sample Positio		Including standard, control and stat; either serum cup or primary tube available						
Sample Volum		1~100µ1,0.1	ul / step					
Reagent Position		40						
Reagent Volum	ie	R1:1~400µI,1µI / step,R2:1~400µI,1µI / step						
Reagent / Sample F		With liquid level sensor, collision sensor, teflon coating and automatic washing station						
Reaction Time)	0~999 seconds						
Cuvette		High quality uv-transmitted plastic cuvette. Quartz glass cuvettes available on request						
Cuvette Washir	ng	8 channels automatic washing system for reaction cuvettes						
Probe And Mixer Wa	shing	Independent washing station for each sample/reagent probe and mixer						
Alarm		Automatic alarm for malfunction (eg: collision, reagent / sample insufficiency, full waste container, etc)						
Calibration		Linear, Non-linear, Multi standard, K factor						
Sample Dilution/R	etest	Sample can be diluted and retested if results are out of range or sample is insufficient. Also with calibrator auto diluting function						
Wavelength		340~810nm						
Light Source		Halogen lam	р					
Absorbance Resol	ution	0.0001A						
Absorbance Accu	racy	±0.0003A(0~	·2.5A)					
Repeatability (CV	/ %)	≤2%	,					
Quality Contro	ol	Levy Jenning	s quality cont	rol progra	m at 3 levels			
Bar Code		Optional						
Printer		Multiple repo	ort formats ava	ilable				
Test Control Fund	tion	New card co	ntrol system a	vailable o				
Language		English, French, Spanish, German, Russian, etc.						
System		Windows XP or Vista ; Windows 7						
Power Supply	7	220V / 50Hz or 110V / 60Hz (optional)						
Dimension	ų.	85x75x75 cm (LxWxH)						
Weight		145Kg						



All FACA Fully Automatic Biochemistry Analyzers have 2 different sample plates: Standard sample plate for use with serum cup (serum order)



STANDARD SAMPLE PLATE

Test tube sample plate for use with 13x75 - 13x100mm test tubes (that is optional)



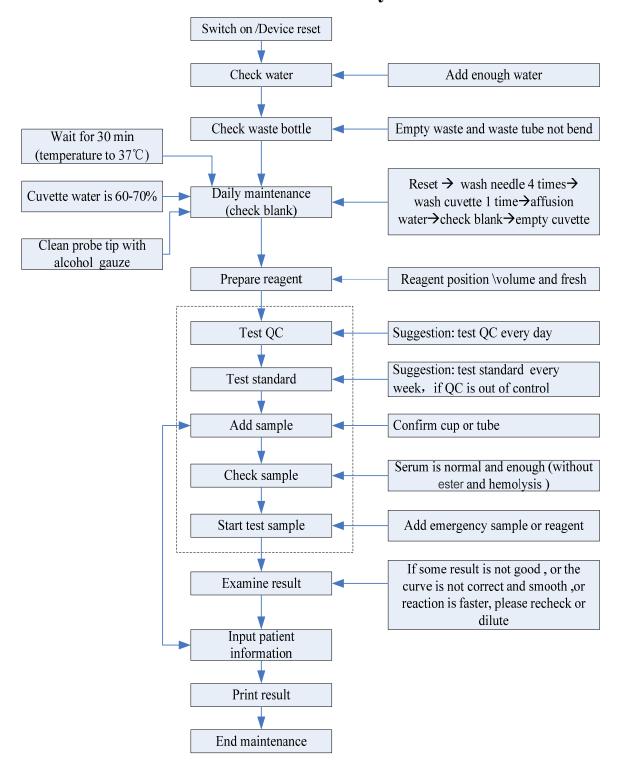
TEST TUBE SAMPLE PLATE

Labomed, Inc., Mailing Address: 2728 S La Cienega Blvd., Los Angeles, CA 90034 U.S.A.

TEL (310) 202-0811 FAX (310) 202-7286

Email: spectro@labomed.com, labomedinc@gmail.com

bichemical instrument analyzer SOP



"start work": online→reset→wash needle 4 times→wash pipeline 4times→ wash cuvette 1 time→affusion → check blank and save→empty→reset

"stop work" : online→reset→wash needle 4 times→wash cuvette 1 time→affusion