



- Throughput: 400 tests per hour (up to 560 tests per hour with optional ISE)
- Two separate reagent needles and one separate sample needle to avoid carryover
- Allowing LIS connectivity
- User friendly intuitive menu guidance
- Broad range of parameters
- Optional: direct ISE unit

## Alfa 600

### Clinical Chemistry Analyzer



innovación  
tecnológica  
para  
laboratorio

Rafer

## Available Products: Reagents

### Routine Chemistry Assays

AlfaTEST ALB BCG	6x100 ml	Albumin	Mono-liquid, Bromocresol-green method
AlfaTEST BIL total	6x100 + 2x16 + 2x80 ml	Total Bilirubin	Colorimetric, mod. Jendrassik-Gróf method
AlfaTEST BIL direct	6x100 + 2x16 + 2x80 ml	Direct Bilirubin	Colorimetric, mod. Jendrassik-Gróf method
AlfaTEST CA CPC	3x100 + 3x100 ml	Calcium	CPC method
AlfaTEST CREA	6x47 + 6x11 ml	Creatinine	Enzymatic
AlfaTEST GLU	9x100 ml	Glucose	Mono-Liquid, end point, GOD-PAP
AlfaTEST GLU HK	6x47 + 6x13 ml	Glucose Hexokinase	5+1, kinetic or end point, UV test, Hexokinase
AlfaTEST PHOS	5x20 + 5x12 ml	Inorganic Phosphorus	UV, Molybdat method
AlfaTEST FE FZ	6x47 + 6x13 ml	Iron	5+1, Ferrozine method
AlfaTEST MG XB	2x100 ml	Magnesium	Mono-liquid, Xylidylblue method
AlfaTEST TP	6x100 ml	Total Protein	Mono-liquid, Biuret method
AlfaTEST UREA	6x40 + 3x49 ml	Urea	UV, kinetic
AlfaTEST UA	6x47 + 6x11 ml	Uric Acid	5+1, PAP, end point
AlfaTEST NH3	2x14 + 2x5 + 2x5 ml	Ammonia	Lyophilized-reagent, UV, kinetic
AlfaTEST CHE	5x25 + 5x7 ml	Cholinesterase	5+1, kinetic, colorimetric, DGKC '94
AlfaTEST FRUC	6x14 + 6x6 ml	Fructosamin	Colorimetric, kinetic
AlfaTEST a-HBDH	6x20 + 2x13 ml	H-Butyrat-Dehydrogenase	UV, DGKC
AlfaTEST GLDH	5x20 + 1x20 ml	Glutamate Dehydrogenase	5+1, UV
AlfaTEST LA	6x20 ml	Lactate	Mono-liquid, PAP
AlfaTEST LIP col	6x50 + 6x20 ml	Lipase	Colorimetric Method

### Diabetic Assays

AlfaTEST HbA1c	1x60/1x30/1x15/1x15 ml	Haemoglobin A1c	Latex-enhanced immunoturbidimetric
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### Enzyme Assays

AlfaTEST ALP IFCC	6x47 + 6x13 ml	Alkaline Phosphatase	5+1, AMP-Buffer, IFCC method
AlfaTEST ACP	6x13 + 6x13 + 1x5 ml	Acid Phosphatase	Colorimetric-kinetic, lyophilized
AlfaTEST AMYL IFCC	6x47 + 6x13 ml	a-Amylase	5+1, EPS-Substrate, IFCC method
AlfaTEST P-AMYL IFCC	6x47 + 6x13 ml	Pancreatic a-Amylase	5+1, EPS-Substrate, IFCC method
AlfaTEST CK NAc	6x47 + 6x11 ml	Creatine Kinase	5+1, UV, Nac activated
AlfaTEST CK MB	6x47 + 6x11 ml	Creatine Kinase MB	5+1, UV, Immunoinhibition
AlfaTEST GPT ALT	6x47 + 6x11 ml	Alanine aminotransferase	5+1, UV, IFCC
AlfaTEST GOT AST	6x47 + 6x11 ml	Aspartat aminotransferase	5+1, UV, IFCC
AlfaTEST GGT	6x47 + 6x13 ml	Gamma-GT	5+1, Carboxy-Substrat, Szasz '74 acc. IFCC
AlfaTEST LDH-L	6x47 + 6x13 ml	L-Lactate Dehydrogenase	5+1, kinetic UV test, IFCC method L to P

## Available Products: Reagents

### Lipid Assays

AlfaTEST CHOL	18x50 ml	Cholesterol	Mono-liquid, CHOD-PAP, end point
AlfaTEST HDL direct	6x30 + 3x20 ml	Direct HDL Cholesterol	3+1, elimination method, direct
AlfaTEST LDL direct	6x30 + 3x20 ml	Direct LDL Cholesterol	3+1, elimination method, direct
AlfaTEST TG	12x50 ml	Triglycerides	Mono-liquid, GPO-PAP, end point

### Urine Testing

AlfaTEST USP	6x50 ml	Ultrasensitive Protein	Mono-liquid, Pyrogallol red method
AlfaTEST ALB	6x20 + 6x6 ml	Micro Albumin	Immunturbidimetric

### Specific Protein Assays

AlfaTEST APO A1	6x20 + 6x8 ml	Apolipoprotein A1	Immunturbidimetric
AlfaTEST APO B	6x20 + 6x6 ml	Apolipoprotein B	Immunturbidimetric
AlfaTEST C3	2x20 + 2x7 ml	Complement Factor C3 c	Immunturbidimetric
AlfaTEST C4	2x20 + 2x6 ml	Complement Factor C4	Immunturbidimetric
AlfaTEST CRP	6x19 + 1x16 ml	C-Reactive Protein	Immunturbidimetric
AlfaTEST CRP Latex	2x15 + 2x15 ml	hs-C-Reactive Protein	Latex-enhanced immunturbidimetric
AlfaTEST FER	3x20 + 3x15 ml	Ferritin	Latex-enhanced immunturbidimetric
AlfaTEST MYO	1x20 + 1x8 ml	Myoglobulin	Immunturbidimetric
AlfaTEST IgG	6x20 + 6x8 ml	Immunoglobulin G	Immunturbidimetric
AlfaTEST IgA	6x20 + 6x8 ml	Immunoglobulin A	Immunturbidimetric
AlfaTEST IgM	6x20 + 6x8 ml	Immunoglobulin M	Immunturbidimetric
AlfaTEST LP (a)	2x15 + 2x4 ml	Lipoprotein A	Immunturbidimetric
AlfaTEST KAPPA	2x15 + 2x7 ml	Kappa	Immunturbidimetric
AlfaTEST LAMBDA	2x15 + 2x6 ml	Lambda	Immunturbidimetric
AlfaTEST ASL	4x12 + 4x20 ml	Antistreptolysin-O	Latex-enhanced immunturbidimetric
AlfaTEST RF	6x20 + 6x8 ml	Rheumatoid Factor	Latex-enhanced immunturbidimetric
AlfaTEST Transferrin	6x20 + 6x7 ml	Transferrin	Immunturbidimetric

### Electrolyte Assays Direct ISE

ISE Calibrator A 500 ml	ISE Calibrator B 125 ml	ISE Urine Diluent 125 ml
ISE Cleaning Solution (pepsin)	ISE Electrode Na, K, Cl	ISE Electrode (Ref)

### Consumables

Alfa0011	Wash solution 1	10x25 ml
Alfa0012	Wash solution 2	10x25 ml
Alfa0010	Wash solution C-1	10x1 ml
Alfa0050	Diluent	6x50 ml
	Chimneys	96 pcs

3.0 ml Sample Cups and Pediatric Sample Cups

## Available Products: Calibrators

### Calibrators and Controls

Alfa1430	AlfaCAL E	10x3 ml
Alfa14081	AlfaCAL HbA1c Calibration Set	1x2/5x0,5 ml
Alfa14150	AlfaCAL ASL Calibration Set	5x1 ml
Alfa1401	AlfaCAL L	1x2 ml
Alfa1402	AlfaCAL L	5x2 ml
Alfa1470	AlfaCAL P	3x1 ml
Alfa14530	AlfaCAL CRP Calibration Set	5x1 ml
Alfa14630	AlfaCAL MYO	1x1 ml
Alfa14870	AlfaCAL RF Calibration Set	5x1 ml
Alfa14540	AlfaCAL CRP Ultra	5x1 ml
Alfa14560	AlfaCAL FRUC	3x1 ml
Alfa14555	AlfaCAL FER Cal Set	4x2 ml
Alfa1475	AlfaCAL P Set	5x1 ml
Alfa14770	AlfaCAL LP(a)	3x1 ml
Alfa1491	Protein C-Standard	3x5 ml
Alfa14070	AlfaCAL Alb Set	5x1 ml
	Preciset Ammoniak Standard	2x4 ml
	ACP Standard	
Alfa1220	AlfaNorm Plus	20x5 ml
Alfa1303	AlfaPath L	5x3 ml
Alfa1320	AlfaPath Plus	20x5 ml
Alfa1501	LP(a) Control	1x2 ml
Alfa1508	HbA1c Controls Set	2x0,25 ml
Alfa1542	Serum Control , CK,CK-mb	5x2 ml
Alfa1563	Myo Control	2x1ml
Alfa7661	Protein Control 1	3x1ml
Alfa7662	Protein Control 2	3x1ml
Alfa7760	Protein C Control Set	2x5 ml
	ACP / GLDH Control Low / High	
Alfa7562	AlfaNorm ARC	2x1ml
	Ammoniak Control Normal	5x4 ml
	Ammoniak Control Abnormal	5x4 ml
	Precinorm Fructosamin	3x1 ml
	Precipath Fructosamin	3x1 ml

### Regulatory:

The Alfa 600, Reagents, Quality Controls and Calibrators are manufactured by Alfa Wassermann B.V. and will bear the CE-mark according to the IVDD Directive 98/79-CE.

The CE-registration is in process and expected to be finalized mid May 2010.

*Alfa Wassermann B.V. is an ISO 9001:2000 registered company*





## Specifications

<b>Type</b>	Desktop fully automated random access analyzer	
<b>Usage</b>	General chemistry as photometric assay Immunology as photometric assay (Latex reagents available)	
<b>Assay type</b>	End point, 2 point end, Rate, 2 point rate and electrolytes	
<b>Throughput</b>	400 tests per hour (Up to 560 tests per hour with ISE)	
<b>Incubation time</b>	Five minutes after applying sample for one reagent assay Five minutes after applying second reagent for two reagents assay	
<b>Sample type</b>	Serum, Plasma and Urine	
<b>Sample input system</b>	Type:	Removable tray with sample tube holder on a carousel
	Capacity:	Up to 92 samples (72 available for STAT)
	Controls and Standards:	20 positions on designated inner tray
<b>Sampling pipette</b>	Type:	Micro-pipette with liquid level detector
	Rinsing:	Inside and outside with purified water
<b>Sampling pump</b>	Type:	Micro syringe 2 to 35 µl (increment by 0.1 µl)
<b>Reagent system</b>	Type:	Removable tray with reagent bottle holder on a carousel Barcode reagent ID detection with laser barcode reader
	Capacity:	60 reagent positions on a tray
	Inventory:	Calculation of remaining reagent volume available
	Cooling:	Cooling with Peltier element. (8 to 15 degrees Celsius)
<b>Reagent pipette</b>	Numbers of pipettors:	Two (One for R1 and one for R2)
	Type:	Micro-pipette with liquid level sensor
	Rinsing:	Inside and outside with purified water
	Number of reagents:	Up to two reagents per parameter
	Inventory:	Calculation of remaining reagent volume available
<b>Reagent pump</b>	Type:	Micro syringe
	R1 Volume:	20 to 350 µl (increment by 1µl)
	R2 Volume:	20 to 250 µl (increment by 1µl)
<b>Cuvette system</b>	Number of cuvettes:	90 cuvettes on reaction line
	Type:	Reusable with onboard washing system
	Material:	Pyrex
	Volume for measurement:	Minimum 150 µl
	Maximum volume:	450 µl in total
<b>Reaction system</b>	Type:	Direct heating system
	Temperature:	37 degrees Celsius
<b>Detector</b>	Method:	Direct measurement of absorbance in cuvette Bi-chromatic or Mono-chromatic
	Wavelengths:	340, 380, 415, 450, 510, 546, 570, 600, 660, 700, 750, 800 nm
	Light source:	Halogen tungsten lamp
<b>Stirring system</b>	Stick type rotating stirrer	
<b>Dimensions</b>	970 mm (W) x 690 mm (D) x 580 mm (H) (Analyzer only)	
<b>Optional</b>	ISE unit	