



# A15

FULLY-AUTOMATED CLINICAL  
CHEMISTRY ANALYZER

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## AN ELEGANT SYSTEM

A15 is a compact and easy to use automatic analyzer, designed especially for small laboratories as their main analyzer offering the best performance and maximum efficiency.

A15 is easily adaptable to any work routine due to the flexibility in the installation of samples and reagents.

A15's performance (low water consumption, minimal maintenance, high quality constituents and significant savings in the use of consumables) optimizes the operating cost of the laboratory.

With the automatic analyzer A15, BioSystems provides a complete system using our dedicated reagents for Clinical Chemistry and Turbidimetry designed to achieve the best possible performance.

- Throughput of 150 test / hour
- Good design with high functional robustness
- Open System
- Low water consumption (less than 0.5 L per hour)
- Maximum flexibility in the positioning of samples and reagents (mutual Racks)
- Real prozone detection function
- Capacity up to 30 reagents or 72 samples
- Ability to install together primary tubes and pediatric vials in any position
- Intuitive and easy to follow software, including bidirectional LIS Integration, STAT and Internal Quality Control Management (Levey-Jennings graphs)
- Automatic and configurable management of reagent interference
- Use of dedicated reagents ready to be used without manipulation or transfers



## TECHNICAL SPECIFICATIONS

Random access automatic analyzer aimed at giving IVD results with photometric reading directly in the reaction rotor.

Throughput	150 test/hour
Positions for racks	4 (Reagents and samples)
Number of samples per sample rack	24 (Racks multipurpose)
Maximum capacity of samples	72 (primary tubs and pediatric vials in the same rack)
Flexibility in type of sample tubes	ø13 mm, ø15 mm (max height: 100 mm), pediatric cups ø13 mm
Number of reagents per reagent rack	10
Maximum capacity of reagents	30
Reagents bottles	20 mL and 50 mL
Dispensing tip	Stainless Steel
Level detection	Capacitive
Dosing pump	Ceramic piston of high durability
Reagent volume	10 µL - 600 µL
Sample volume	2 µL - 80 µL
System liquid bottle volume	2700 mL
Waste bottle volume	2700 mL
Washing solution bottle volume	2700 mL
Removable methacrylate rotor	120 reaction wells
Reaction volume range	180 µL - 800 µL
Lightpath	6 mm
Light source	Halogen lamp 6V, 10W
Photometric detection system	Silicon photodiode
Measurement range	From -0.05 A to 3.0 A
Spectral range	340 nm – 900 nm
Filter configuration	340, 405, 505, 535, 560, 600, 635, 670 nm (+1 additional filter can be added by user)*
Physical dimensions	840 x 670 x 615 mm (width x depth x height)
Weight	45 kg

## Biochemistry

Cod.	Test	Presentation R1	R2	mL/Kit
12550	α-Amylase-Direct	5x20 mL		100
12799	β-Amylase-Pancreatic	1x40 mL	1x10 mL	50
12754	Adenosine Deaminase (ADA)	4x8 mL	1x10 mL	40
12533	Alanine Aminotransferase (ALT/GPT)	5x40 mL	5x10 mL	250
12547	Albumin	5x50 mL		250
12518	Alkaline Phosphatase (ALP)-AMP	5x16 mL	2x10 mL	100
12514	Alkaline Phosphatase (ALP)-DEA	5x16 mL	2x10 mL	100
12532	Ammonia	1x20 mL	1x7 mL	27
12796	Angiotensin Converting Enzyme (ACE)	1x50 mL		50
12531	Aspartate Aminotransferase (AST/GOT)	5x40 mL	5x10 mL	250
12525	β-Hydroxybutirate	1x40 mL	1x10 mL	50
12504	Bilirubin Direct (DPD)	5x50 mL		250
12506	Bilirubin Total (DPD)	5x50 mL		250
12570	Calcium-Arsenazo	10x50 mL		500
12513	Calcium-Cresolphthalein	5x40 mL	5x10 mL	250
12558	Carbon Dioxide (CO <sub>2</sub> )	5x50 mL		250
12505	Cholesterol	10x50 mL		500
12557	Cholesterol HDL Direct	3x20 mL	1x20 mL	80
12585	Cholesterol LDL Direct	3x20 mL	1x20 mL	80
11795	Citrate*	1x40 mL	1x10 mL	50
12524	Creatine Kinase (CK)	3x12 mL	1x10 mL	45
12566	Creatine Kinase-MB (CK-MB)	3x12 mL	1x10 mL	45
12502	Creatinine	5x50 mL	5x50 mL	500
12734	Creatinine-Enzymatic	1x45 mL	1x15 mL	60
12789	Ethanol	1x20 mL	1x7 mL	27
11794	Fructose*	1x40 mL	1x10 mL	50
12520	γ-Glutamyltransferase (γ-GT)	5x40 mL	5x10 mL	250
12503	Glucose	10x50 mL		500
12756	Glucose-Hexokinase	2x40 mL	2x10 mL	100
12737	Homocysteine	1x40 mL	1x10,8 mL	50,8
12509	Iron-Ferrozine	5x40 mL	5x10 mL	250
12736	Lactate	2x40 mL	2x10 mL	100
12580	Lactate Dehydrogenase (LDH)	5x40 mL	5x10 mL	250
12793	Lipase	2x20 mL	1x8 mL	48
12797	Magnesium	5x16 mL	2x10 mL	100
12539	Oxalate*	1x20 mL	1x5 mL	25
12508	Phosphorus	3x24 mL	2x15 mL	100
12500	Protein (Total)	10x50 mL		500
12501	Protein (Urine+CSF)*	5x50 mL		250
12551	Total Bile Acids*	1x18 mL	1x6 mL	24
12528	Triglycerides	10x50 mL		500
12835	Unsaturated Iron Binding Capacity (UIBC)	1x40 mL	1x10 mL	50
12516	Urea/BUN-UV	5x40 mL	5x10 mL	250
12521	Uric Acid	10x50 mL		500
11526	Zinc*	2x20 mL	1x10 mL	50

## Turbidimetry

Cod.	Test	Presentation R1	R2	mL/Kit
13324	Albumin (Microalbuminuria)	1x40 mL	1x10 mL	50
13923	Anti-Streptolysin O (ASO)	1x40 mL	1x10 mL	50
13936	Antithrombin III	1x40 mL	1x10 mL	50
13084	Complement Component C3	1x50 mL		50
13085	Complement Component C4	1x50 mL		50
13921	C-Reactive Protein (CRP)	2x40 mL	2x10 mL	100
13927	C-Reactive Protein-hs (CRP-hs)	1x40 mL	1x10 mL	50
13934	Ferritin	1x30 mL	1x15 mL	45
13600	Fibrinogen	1x40 mL	1x10 mL	50
13047	Hemoglobin A1C-Direct (Hb A1C-Direct)	1x50 mL	1x10 mL	60
13082	Immunoglobulin A (IgA)	1x50 mL		50
13081	Immunoglobulin G (IgG)	1x50 mL		50
13083	Immunoglobulin M (IgM)	1x50 mL		50
13922	Rheumatoid Factors (RF)	1x40 mL	1x10 mL	50
13091	Transferrin	1x50 mL		50



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