

TECHNICAL FEATURES

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

| | |
|--------------------------------------|--|
| Throughput | 240 test/hour |
| Positions refrigerated reagents | 30 (20 mL y 50 mL) |
| Positions for racks not refrigerated | 3 (rack polivalente) |
| Number of samples per rack | 24 |
| Maxim capacity of samples | 72 |
| Sample tubes | ø13 mm, ø15 mm (max. height 100 mm) Cups ø13 mm |
| Maxim capacity of reagents | 52 (30 refrigerados + 22 no refrigerados) |
| Reagents bottles | 20 mL and 50 mL |
| Dispensing tip | Stainless Steel |
| Level detection | Capacitive |
| Dosing pump | Ceramic Piston of high durability |
| Dispensing system precision | CV < 2% with 3 µL of sample |
| Reagent volume (Program) | 10 µL - 440 µL |
| Sample volume (Program) | 3 µL - 40 µL |
| System liquid bottle volume | 3000 mL |
| Waste bottle volume | 3000 mL |
| Washing solution bottle volume | 3000 mL |
| Removable methacrylate rotor | 120 reaction wells |
| Reaction volume range (program) | 180 µL - 800 µL |
| Lightpath | 6 mm |
| Light source | Halogen lamp 12 V, 20 W |
| 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 |
| Physical dimensions | 1080 x 695 x 510 mm (long. x wide x height) |
| Weight | 73 kg (162 lb.) |

A25

CE



RANDOM ACCESS ANALYZER

A25

BioSystems
REAGENTS & INSTRUMENTS



BioSystems, S.A reserves the right to change specifications of the instrument at any time due to technical improvements.



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Clinical Chemistry
Turbidimetry



BioSystems has always prioritized top quality as the main goal in all its developments, aware of the capital role played by the clinical laboratory by towards the health of people. For BioSystems, quality means providing accurate and reliable results, without compromising the ease-of-use or the mechanical reliability.

BioSystems offers the **A25** as a complete system that integrates biochemistry and turbidimetry dedicated reagents designed to achieve the highest performance, with reliable and durable mechanics and optics, and Software covering major areas of laboratory management in a simple and intuitive way: a winning combination for your laboratory.

The **A25** stylish and robust design brings the state-of-the-art technology to work in any kind of environment and workload conditions, paying special attention to optimize consumption and minimize maintenance costs.

- Throughput of 240 test/hour
- System capacity for refrigerated reagents up to 30 positions with independent power supply
- Flexibility in positioning of sample (primary tubes and paediatric vials in any position) and reagents
- Use of dedicated reagents ready to use without any manipulation or transfer
- Low water consumption: 1,6 L/h
- Minimum volume in reaction cuvette: 180 µL
- Intuitive and easy to follow software, including bidirectional LIS Integration, STAT and Internal Quality Control (Levey-Jennings graphs)
- Automated daily maintenance and self-check
- Automatic and configurable management of reagent interference
- Real prozone detection function
- Calibrator automatic dilution to prepare the calibration curves
- Automatic pre and post-dilutions of samples
- All conditioning components always installed in the system
- High accuracy dispensing systems: CV < 2% for 3 µL of sample.

Biochemistry

| Cod. | Test | Presentation | | mL/Kit |
|-------|--|--------------|-----------|--------|
| | | R1 | R2 | |
| 12550 | α-Amylase-Direct | 5x20 mL | | 100 |
| 12799 | α-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 |
| 12796 | Angiotensin Converting Enzyme (ACE) | 1x50 mL | | 50 |
| 12531 | Aspartate Aminotransferase (AST/GOT) | 5x40 mL | 5x10 mL | 250 |
| 12798 | Bilirubin (Direct) | 5x40 mL | 5x10 mL | 250 |
| 12510 | Bilirubin (Total) | 5x40 mL | 5x10 mL | 250 |
| 12570 | Calcium-Arsenazo | 10x50 mL | | 500 |
| 12513 | Calcium-Cresolphthalein | 5x40 mL | 5x10 mL | 250 |
| 12558 | Carbon Dioxide (CO ₂) | 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 |
| 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 |
| 12735 | Haemoglobin A1c-Enzymatic (HbA1c-ENZ) | 1x50 mL | 1x20 mL | 70 |
| 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 |
| 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 |

* Standard included

Turbidimetry

| Cod. | Test | Presentation | | mL/Kit |
|-------|---------------------------------------|--------------|---------|--------|
| | | R1 | R2 | |
| 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 |
| 13160 | Cystatin C | 1x45 mL | 1x15 mL | 60 |
| 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 |
| 13044 | Hemoglobin A1C-Turbi (Hb A1C-Turbi) | 1x40 mL | 1x10 mL | 50 |
| 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 |

BioSystems has developed a wide range of reagents intensively evaluated in different workload conditions and validated to achieve the highest performance in A25 and A15 systems. These systems comply with the requirements of European IVD Directive (98/79/EC) and as a consequence are CE marked. BioSystems recommends their use according to the instructions and applications validated by BioSystems.

