

ALTAMEDICA INCORPORATED

INTRODUCTION TO MEDICAL DIAGNOSTIC PRODUCTS OF



ABOUT THE COMPANY

Linear Chemicals S.L.U, known as LINEAR, is a Spanish company located in Montgat-Barcelona, which develops, manufactures and markets in vitro diagnostic (IVD) instruments and reagents, and accessories for clinical laboratory.

Linear is also an exclusive partner of Altamedica Incorporated here in the Philippines.

Since its foundation in 1994, it collaborates and invests constantly in R&D projects to improve and facilitate work in the laboratory and clinical diagnosis field. With an international projection, the company exports all over the world: the brands Cromatest, Clonatest, Plus-Sed, LiNEAR and Neartip are distributed in 125 countries on 5 continents.

The keys to the **success** of the company could be summed up in: highly qualified personnel, the constant improvement in productive processes and production, flexibility in production, and customer care.





CHEMISTRY

- Throughput: 420 tests/hour
- Sample tray: 100 positions
- Reagent tray: 80 refrigerated positions (at 2~10°C)
- Sample probe: Liquid level detection, Collision protection, Inventory checking and Clot detection
- Probe cleaning: Automatic washing both interior and exterior, carryover <0.1%
- 2 reagent probes and 2 mixing probes
- Reaction system: 100 cuvettes with automatic washing station
- Water consumption: ≤20L/hour



CHEMISTRY

- Throughput: 200 tests/hour
- Sample Tray: 40 sample positions
- Reagent Tray: 40 refrigerated positions
- Sample probe: Liquid Level Detection, Collision Protection, Inventory checking, Clot Detection
- Probe Cleaning: Automatic washing both interior and exterior, carryover of <0.1%.</p>
- Reading Cuvettes: 81 cuvettes, 9 per strip
- Automatic washing station for cuvettes
- 1 Mixing Probe
- Water consumption: ≤6 7 liters per hour



- Analytical Methods: End-Point, Fixed Time, Kinetics, Bichromatic, Turbidimetry, Multi-standard calculations
- Memory & Programs: 130 pre-programmed test protocols (e.g., Cromatest reagents), 600 patients automatically stored
- Light Source: Tungsten Halogen Lamp (6V/10W)
- Fluidic System: Peristaltic pump with flow-cell quartz cuvette, sample volume ~30 μl
- Mouse and Keyboard operation. User-friendly UI
- Display & Printing: LCD screen (color or monochrome), plus internal thermal printer included
- Weight: ~8 kg (17.6 lb)
- Easy system update and upgrade because of Windows based Operating System (WinCE).



SEMI-AUTOMATED



CHEMISTRY

LINEAR CHEMICALS, S.L.U.

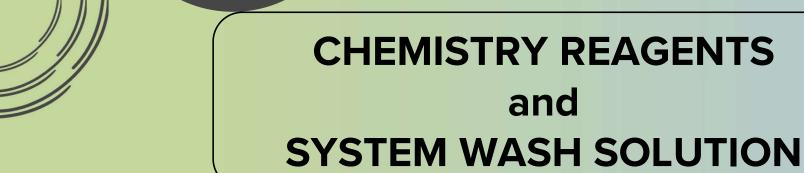
- Ergonomic design and soft ejector button that ensure a comfortable pipetting
- Individually calibrated to operate under International standards as EN ISO 8655 and IVD 98/79 EEC
- Strict manufacturing quality controls that it will last for years
- With an inaccuracy of below 1% and imprecision of lower than 1%

PLUS-SED

PIPETTE







- ☐ Cromatest
- ☐ Clonatest
- ☐ Human Multisera Normal Control
- ☐ Human Multisera Abnormal Control
- ☐ Calibrator (Multicalibrator)
- ☐ Systemic and De-protein Solution (KROMA)
- ☐ Cleaner Solution (LIDA)
- Extrawash Cuvette Solution
- ☐ ISO-Clean





- 20 parameters plus 3 histograms
- Counting Modes and Aspiration Volumes:
 - Whole Blood (9.8uL),
 - Peripheral Blood (9.8ul)
 - Pre-diluted Blood (20uL)
- Throughput: 60 tests/hour
- 3 reagent system (Diluent, Lyse, Cleaner) + 1 Concentrated Cleanser for maintenance
- Data Storage: Up to 50 000 sample results (including histograms)
- Display: LCD touch screen
- With built-in Thermal Printer
- LIS: Bi-directional connection



STEL 3

3 PARTS ANALYZER





- 20 parameters plus 3 histograms
- Counting Modes and Aspiration Volumes:
 - Whole Blood (9.8uL),
 - Peripheral Blood (9.8ul)
 - Pre-diluted Blood (20uL)
- Throughput: 60 tests/hour
- 3 reagent system (Diluent, 2 Lyse,) + 1 probe cleanser for maintenance
- Data Storage: Up to 50 000 sample results (including histograms)
- Display: LCD touch screen
- With built-in Thermal Printer
- LIS: Bi-directional connection





5 PARTS ANALYZER



- With auto-loading track
- 28 parameters plus 8 research parameters, 2 histograms and 4 scattergrams
- Counting Modes and Aspiration Volumes:
 - Open vial Whole blood (≤15uL)
 - Auto-loading Whole blood (20uL)
 - Pre-diluted blood (20uL)
- Throughput: 80 samples per hour
- 3 reagent system (Diluent, 2 Lyse,) + 1 probe cleanser for maintenance
- Data Storage: 60,000 sample results with histograms and scattergrams
- Display: 10.4-inch touch screen LCD
- Printer: External printer
- HL7 protocol and Bi-directional LIS



STEL 5 PLUS

5 PARTS ANALYZER





- ☐ Diluent
- ☐ Lyse
- ☐ Cleanser
- ☐ Calibrator
- ☐ Controls
- ☐ Concentrated Cleanser



- Detection Methods: Clotting, chromogenic, and immunologic assays
- Assays: Measures standard coagulation parameters including APTT, PT, TT, D-Dimer, Fibrinogen (FIB), ATW, PLG, and others
- Sample Positions: 27 positions
- Reagent Positions: 27 positions
- Onboard Cuvettes: 72 cuvettes
- Weight: 53 kg
- Probe Features:
 - Pre-heating capability
 - Automatic washing (reduces carry-over)
 - Collision protection
 - Liquid level detection
 - Sample/reagent inventory checking



ALTHEA

FULLY AUTOMATED



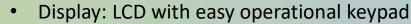


- Number of channels: 4
- Test types supported: PT (Prothrombin Time), APTT (Activated Partial Thromboplastin Time), Fibrinogen, TT, D-Dimer etc.
- Sample positions: 24
- Reagent positions: 6
- Test result storage capacity: 10,000 results
- Detection method: Scattered light with percentage analysis; using a durable LED detector at 470 nm
- Test time / Sample cycle time: Approximately 20–60 seconds
- Sample handling: Includes an electronically linked pipette for sample processing
- Weight: 8 kg (approximately 17.6–18 lb)
- Built-in incubator for reagents and samples









- Number of channels: 2
- Test types supported: PT (Prothrombin Time), APTT (Activated Partial Thromboplastin Time), Fibrinogen, TT, D-Dimer etc.
- Sample positions: 4
- Reagent positions: 2
- Test result storage capacity: 6,000 results
- Detection method: Scattered light with percentage analysis; using a durable LED detector at 470 nm
- Test time / Sample cycle time: Approximately 20–60 seconds
- Sample handling: Includes an electronically linked pipette for sample processing
- Weight: 5 kg (11lb)
- Built-in incubator for reagents and samples



SEMI AUTOMATED

COAGULATION REAGENTS





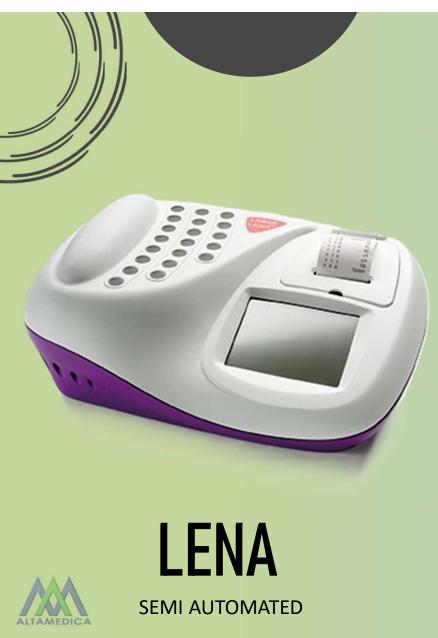
- ☐ Reagent Kits
- ☐ Plasma Control Level 1
- ☐ Plasma Control Level 2





Erythrocyte Sedimentation Rate (ESR)

- Random Access
- Display: LCD backlight, 24x2 characters
- 5 test tube positions
- Optical system: Infrared LED
- Throughput: 18 samples/hour
- Tubes: Plus-Sed (non-vacuum) or Vacused (vacuum)
- Testing time: 17 minutes (1st and 2nd hour results)
- Results in mm, Westergren
- Weight: 1 kg



Erythrocyte Sedimentation Rate (ESR)

- Random Access
- LCD touch screen with backlight display
- Built-in thermal printer
- 20 test tube positions
- Optical system: Infrared LED
- Throughput: 50 samples/hour
- Tubes: Plus-Sed (non-vacuum) or Vacused (vacuum)
- Testing time: 24 minutes
- Results in mm, Westergren
- Weight: 4 kgs



Erythrocyte Sedimentation Rate (ESR)

- Random Access
- LCD backlight 320x240 display
- Built-in thermal printer
- 100 test tube positions
- Optical system: Infrared LED
- Throughput: 250 samples/hour
- Tubes: Plus-Sed (non-vacuum) or Vacused (vacuum)
- Testing time: 24 minutes
- Results in mm, Westergren
- Weight: 8 kgs





- ☐ Plus-Sed auto
- ☐ Vacused
- ☐ Visual-Sed rack
- ☐ ESR Control QC1
- ☐ ESR Control QC2



- Test method: Electro-Chemiluminescence Immunoassay (eCLIA)
- Controllable signaling process
- Even, strong and long-lasting planar luminescence
- High sensitivity and precision
- Small sample volume needed
- Stable label and reagent
- Suitable for the detection of small molecular analytes
- 86 tests/hour
- Reagent system: 10 positions, 4-15 C onboard refrigeration
- Sample position: 30 positions; continuous loading
- Sample volume: 5-100 uL
- Incubation System: 100 positions; 37+0.3 C incubation
- Liquid level detection, Clot detection, Anti-collision function
- Windows 10, Touch-screen LCD



FULLY AUTOMATED

IMMUNOLOGY REAGENTS











- ☐ Reagent Kits
- ☐ Calibrator
- ☐ Control





LIQUID CLINICAL CHEMISTRY



LIDA500



LIDA300



KROMA



TEMIS



CHEMISTRY REAGENTS

Reference	Producto	Sample Type	Reference	Product	Sample Type
1100005	Acid Phosphatase	Serum/Plasma	1129005	Glucose	Serum/Plasma/CSF/Urine
1101000	Albumin	Serum/Plasma	1133010	HDL-Cholesterol	Serum/Plasma
1103005	Alkaline Phosphatase	Serum/Plasma	1134015	Hemoglobin	WB
1105000	ALT/GPT	Serum/Plasma	1135105	Iron Cromazurol	Serum/Plasma
1107005	Amylase	Serum/Plasma/Urine	1135005	Iron Ferrozine	Serum/Plasma
1109000	AST/GOT	Serum/Plasma	1141010	LDH	Serum
1110005	Bilirubin Direct	Serum	1133105	LDL-Cholesterol	Serum/Plasma
1111010	Bilirubin Total	Serum	1143010	Lipase	Serum/Plasma
1113000	Calcium Arsenazo	Serum/Plasma/Urine	1144005	Magnesium	Serum/Plasma
1115000	Calcium OCC	Serum/Plasma/Urine	1148010	Phosphorus	Serum/Plasma/Urine
1116005	Chloride	Serum/Plasma/CSF	1149005	Phosphorus UV	Serum/Plasma/Urine
1118005	Cholesterol	Serum/Plasma	1150015	Potassium	Serum
1119005	Cholinesterase	Serum/Plasma	1162005	Protein (Urine and CSF)	Urine/CSF
1120010	Creatinine Kinase BR	Serum/Plasma	1151015	Sodium	Serum
1121005	Creatinine Kinase-MB	Serum	1137010	TIBC	Serum/Plasma
1123005	Creatinine	Serum/Plasma/Urine	1153005	Total Protein	Serum/Plasma
1126005	GGT	Serum/Plasma	1155005	Triglycerides	Serum/Plasma

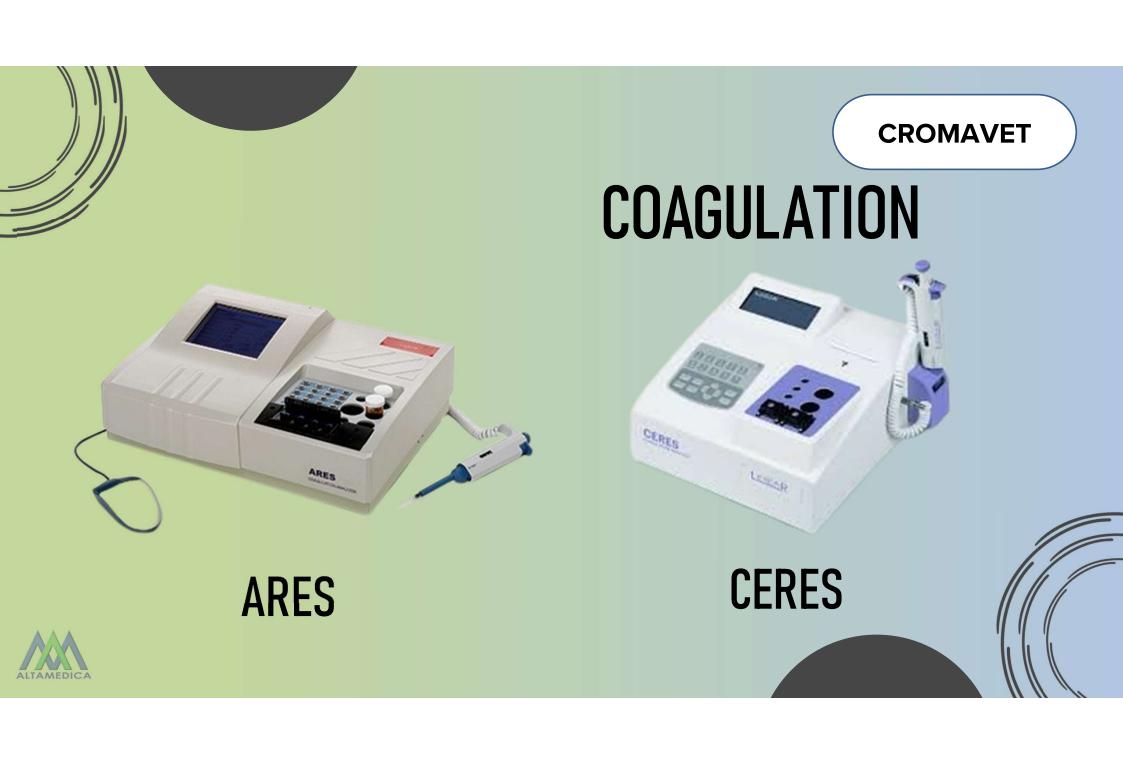




CROMAVET

- Principle: Microfluids and Colorimetry
- Specimens: Canines, Felines, etc.
- Automatic dilution of the sample during testing
- It only requires 100 uL of whole blood, serum or plasma
- Results obtained between 9 and 12 minutes
- Automatic calibration by QR code
- Integrated printer and QRscanner







- Smart Counting Mode: Smart WBC mode, smart PLT mode, smart WBC/PLT mode especially designed for low value samples
- Built-in 10.4 inches touch-screen
- 22 parameters + 3 histograms
- Throughput: 60 samples/hour
- Species: Cat, Dog, Rabbit, Sheep, Goat, Cattle, Horse, Rat, Mouse, Llama, Deer, Musk deer, Monkey, Tiger, Dolphin, Pig, Camel, Ferret
- 2 Reagent system: 1 Lyse and 1 Diluent + 1 Probe Cleanser
- Interface: 4 USB ports, 1 LAN port, Support WIFI adapter, HL7 protocol Bi-directional LIS

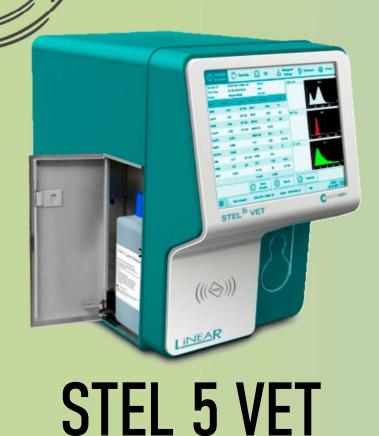


STEL 3 VET

3-PARTS ANALYZER



- Smart Counting Mode: Smart WBC mode, smart PLT mode, smart WBC/PLT mode especially designed for low value samples
- Built-in 10.4 inches touch-screen
- 25 parameters + 2 histograms and 4 scattergrams
- Throughput: 60 samples/hour
- Species: Cat, Dog, Rabbit, Sheep, Goat, Cattle, Horse, Rat, Mouse,
 Llama, Deer, Musk deer, Monkey, Tiger, Dolphin, Pig, Camel, Ferret
- 3 Reagent system: 2 Lyse and 1 Diluent + 1 Probe Cleanser
- Interface: 4 USB ports, 1 LAN port, Support WIFI adapter, HL7 protocol Bi-directional LIS



5-PARTS ANALYZER



Difference of Open System and Close System

Open System:

- The equipment can be installed with any compatible reagent
- > Does not require a barcode or RFID
- The system could be programmed freely with any brand

Close System:

- Usually, the equipment has a barcode installed or RFID
- ➢ It needs a Factory Access Level code before programming





THANK YOU!

MEDICAL PRODUCTS YOU CAN TRUST!



LINEAR

