

ACE Excel[®] Clinical Chemistry System

Technical Specifications

Operative Method: Random Access, Continuous Random Access

Type: Discrete

Assay Method: Photometry, Potentiometry, Turbidimetric/Homogeneous EIA

Assay Types: Final Point, Delta (two-point), Slope (factor or calibrated), Quadratic

ISE Module: Sodium, Potassium, Chloride

Test Modes: Batch, STAT

Number of Different Assays Measured Onboard Simultaneously: 40

Speed: Up to 165 Photometric Tests/Hour; 285 Tests/Hour (with ISE)

Sample Rerun and Dilution: Automatic

Calibration and Controls: Automatic

Reagent Compartment Capacity: 40 Bottles (20 with 30 mL capacity; 20 with 12 mL capacity)

Barcode Type: Uniform Symbology Specification 39, Code 128 Set B and Set C, Codabar and Interleaved 2 of 5

Sample Volume: 3 μ L (minimum) - 500 μ L (maximum)

Dimensions: 33" x 28" x 26" (H x L x D)

Weight: 178 Pounds

Wavelengths: 340, 378, 408, 447, 486, 505, 515, 525, 544, 573, 592, 610, 629, 647, 692 nm

Type: Holographic Diffraction Grating with Diode Array Detector

Computer Processor: Panel PC with Intel J1900 CPU, 2 GB memory

Solid State Disk Drive: 32 GB

Monitor: 15" XGA with Resistive Touch Screen

Operating System: Windows 7 Embedded

Interface: RS232

Internet Connection: RJ-45 Gigabit Ethernet; 802.11 b/g Wireless

Printer: Black and White Laser Printer

Keyboard Type: 103 Key

Error Messages: On Screen

Linear Range: 0.0000-2.0000 O.D. at 0.67 cm Pathlength

Lamp: Pulsed Xenon

Pathlength: 0.67 cm

Noise (decibels): 55

Ambient Room Temperature: 15°C (59°F) to 26.7°C (80°F)

Humidity: 20 to 80% RH (non-condensing)

Analytical Temperature: 37°C \pm 0.3°C

Reagent Compartment Temperature: 8°C \pm 1°C at the reagent sensor; 12°C \pm 2°C at the reagent bottles

Voltage: 100-240 VAC 6 Amps Max - Analyzer; 120 VAC 8 AMPs Max- Printer

Current: 20 Amp Circuit Required

Frequency: 47-63 Hz

BIOPHARMACEUTICAL SERUM BLOOD CHEMISTRY SYSTEMS

Hepatic Function

Alanine Aminotransferase (ALT)
Albumin (ALB)
Alkaline Phosphatase (ALP)
Aspartate Aminotransferase (AST)
Conjugated Bilirubin (Direct Bilirubin) (DBILI)
Globulin (Total Protein-Albumin) (GLOB)*
Lactate Dehydrogenase (LDH)
Total Bilirubin (TBILI)

Non-Alcoholic Fatty Liver Disease/Steatohepatitis (NAFLD and NASH) and Diabetes

Alanine Aminotrasferase (ALT)
Amylase (AMYL)
Aspartate Aminotransferase (AST)
Cholesterol (CHOL)
Ferritin (FERITN)
Glucose (GLU)
High Density Lipoprotein Cholesterol (HDL-C)
Lactate Dehydrogenase (LDH)
Lipase (LIP)
Low Density Lipoprotein Cholesterol (LDL-C)
Total Thyroxine (T4)
Triglycerides (TRIG)
Uric Acid (UA)

Drug-Induced Liver Injury and Acute Liver Failure (DILI and ALF)

Alanine Aminotransferase (ALT)
Alkaline Phosphatase (ALP)
Aspartate Aminotransferase (AST)
Conjugated Bilirubin (Direct Bilirubin) (DBILI)
Creatine Kinase (CK)
Lactate Dehydrogenase (LDH)
Total Bilirubin (TBILI)

Electrolytes

Calcium (Ca++)
Chloride (Cl-)
Direct TIBC (TIBC)
Iron (TIRON)
Magnesium (Mg++)
Potassium (K+)
Sodium (Na+)

Renal Function and Disease (AKI/CKD/DKD)

Serum Blood Urea Nitrogen (BUN)
Serum Creatinine (CREAT)
Total Protein (TP)

Cholestatic Liver Disease, Primary Biliary Cirrhosis, and Primary Sclerosing Cholangitis (PBC/PSC/PFIC)

Alanine Aminotransferase (ALT)
Alkaline Phosphatase (ALP)
Bile Acids (BILEAC)**
Conjugated Bilirubin (Direct Bilirubin) (DBILI)
Gamma-Glutamyl Transferase (GGT)
Total Bilirubin (TBILI)

Cardiovascular Function

Aspartate Aminotransferase (AST)
Calcium (Ca++)
Carbon Dioxide (CO2)
Cholesterol (CHOL)
Creatinine Kinase (CK)
High Density Lipoprotein Cholesterol (HDL-C)
Iron (TIRON)
Lactate Dehydrogenase (LDH)
Low Density Lipoprotein Cholesterol (LDL)
Magnesium (Mg++)
Potassium (K+)
Sodium (Na+)
Triglycerides (TRIG)

*Derived Tests

**For veterinary and research/investigational use only. Not for use in diagnostic procedures

Alfa Wassermann Business Development Managers

Elizabeth Boyle*
Northeast
CT, DC, DE, MA, MD, ME, NH,
NJ, NY, PA, RI, VT
603-834-8115
eboyle@alfawassermannus.com

John Husted
Northwest
IA, ID, Northern IL, MI, MN, MT, ND, NE,
SD, WA, WI, WY
630-881-9011
jhusted@alfawassermannus.com

Steve Wilson
Mid-West
CO, Southern IL, IN, KS, KY, MO,
MS, OH, TN, WV
270-668-3605
swilson@alfawassermannus.com

Frank Pollock
Mid-Atlantic/SE
AL, FL, GA, NC, SC, VA
803-622-7881
fpollock@alfawassermannus.com

Jennifer Yeakley
Southwest
AK, AR, CA, HI, LA, NM, OK, TX
727-798-8212
jyeakley@alfawassermannus.com

*interim position