

# 2009

## LABORATORY ANALYZERS BUYERS GUIDE

Editor's note: This annual resource represents a collaborative effort between *ADVANCE* editorial consultants/advisors, industry manufacturers and editorial staff. This is the detailed version of the guide that appeared in the July issue. *ADVANCE* relies on its readership for feedback. If you have suggestions that would make the Buyers Guide more useful, please e-mail [lnace@advanceweb.com](mailto:lnace@advanceweb.com). Listings do not represent endorsement by *ADVANCE*.

AUTOMATION	PG
Biotest Diagnostics Corp.	
Roche Diagnostics	
Siemens Healthcare Diagnostics	

BLOOD GAS	
Radiometer America	

CHEMISTRY	
Alfa Wassermann Diagnostic Technologies LLC	
Horiba Medical	
Mindray Medical International Ltd.	
Nova Biomedical	
Olympus	
Roche Diagnostics	
Siemens Healthcare Diagnostics	
Vital Diagnostics	

COAGULATION	
Beckman Coulter	
Diagnostica Stago	
Siemens Healthcare Diagnostics	
Trinity Biotech	

HEMATOLOGY	PG
Beckman Coulter	
Horiba Medical	
Mindray Medical International Ltd.	
Siemens Healthcare Diagnostics	

IMMUNOASSAY	
Corgenix Inc.	
DiaSorin Inc.	
Euroimmun US LLC	
Grifols USA LLC	
Inverness Medical	
Olympus	
Radiometer America	
Roche Diagnostics	
Siemens Healthcare Diagnostics	

MOLECULAR DIAGNOSTICS	
HandyLab	

URINALYSIS	
Siemens Healthcare Diagnostics	

### Alfa Wassermann Diagnostic Technologies LLC

[www.alfawassermannus.com](http://www.alfawassermannus.com)

CHEMISTRY	
<b>Contact:</b>	Lauren DiPrima (800) 220-4488 <a href="mailto:info@alfawassermannus.com">info@alfawassermannus.com</a>
<b>Product:</b>	Alfa S40 Clinical Analyzer
<b>Methodologies Used:</b>	Photometric
<b>Tests Available in the U.S.:</b>	Albumin, Alkaline Phosphatase, Alanine Aminotransferase, Amylase, Aspartate Aminotransferase, Blood Urea Nitrogen, Calcium, Carbon Dioxide, Cholesterol, Creatine Kinase, Creatinine, C-Reactive Protein, Gamma-Glutamyl Transferase, Glucose, High Density Lipoprotein Cholesterol, Inorganic Phosphorous, Lactate Dehydrogenase, Total Bilirubin, Total Protein (TP), Triglycerides, Uric Acid (UA)
<b>Throughput:</b>	Up to 40 tests per hour
<b>Time to First Result:</b>	12 minutes
<b>Sample Size:</b>	5-15 mL
<b>Frequency of Calibration:</b>	Self-calibrating
<b>What differentiates your product from others on the market?</b>	Panel or discrete test capabilities, self-calibrating S-Test reagent cartridge, accuracy of large analyzers only found in hospital or reference laboratories; primary tube sampling.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Serum or plasma application
<b>Sample Handling System:</b>	Self-contained S-Test cartridge
<b>Reagents Refrigerated Onboard:</b>	No
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	1 hour
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	20 minutes

### Beckman Coulter

[www.beckman.com](http://www.beckman.com)

COAGULATION	
<b>Contact:</b>	Venita Shirley (714) 993-8687 <a href="mailto:vcshirley@beckman.com">vcshirley@beckman.com</a>
<b>Product:</b>	ACL TOP® Series (high-volume); ACL TOP 500 CTS (mid-high volume); the ACL ELITE and ELITE Pro (mid-low volume). *ACL, ACL TOP and ACL ELITE are registered trademarks of Instrumentation Laboratory in the U.S. and in several international jurisdictions.
<b>Methodologies Used:</b>	LED (optical) clot detection, chromogenic and immunologic testing

<b>Tests Available in the U.S.:</b>	Recombinant PT, APTT, Fibrinogen Clauss, Thrombin Time, Heparin (FXa); VTE and DIC: D-dimer HS and D-dimer with VTE exclusion claim; Lupus Anticoagulant: Silica Clotting Time, LAC Screen/Confirm; Bleeding Disorders: Intrinsic Factors, Extrinsic Factors, Factor XIII, VWF Antigen, VWF Activity; Thrombophilia: Antithrombin, Protein C (Chromogenic), Protein C (Clotting), Free Protein S (Antigenic) Protein S (Clotting) FV Leiden (ARC- R V) Homocysteine, Fibrinolysis: Plasminogen, Plasmin Inhibitor.
<b>Throughput:</b>	ACL TOP: up to 360 PTs/hr; ACL TOP 500 CTS: up to 240 PTs/hour; Elite and Elite Pro: 175 PTs/hr
<b>Time to First Result:</b>	ACL TOP: <3 mins; ACL TOP 500 CTS: <3 mins; ACL Elite and Elite Pro: 4 mins
<b>Sample Size:</b>	ACL TOP: PT 50 uL; ACL TOP 500 CTS: PT 50 uL; ACL Elite and Elite Pro: PT 60 uL
<b>Frequency of Calibration:</b>	Varies by assay
<b>What differentiates your product from other products on the market?</b>	ACL TOP: State-of-the-art technology with LED optics that allows the instrument to read outside the range of interference, clot signature curve analysis and closed tube sampling (CTS); robust system offering continuous operation without interruption to workflow; minimized operator intervention using intuitive Windows Professional software; 2D barcoding for reagent, calibration and control value import. ACL TOP 500 CTS: A complete small footprint solution for labs in need of space for a medium-to-high volume and specialty lab. Broad menu for routine and specialty assays, continuous operation and superior walkaway time, real-time stat capability, closed tube sampling (CTS) through a cap-piercing system, automated reagent management, QC and maintenance. ACL Elite and Elite Pro: test menu featuring D-dimer, barcode reagent management, ACL™ family harmonization.
<b>Operational Type:</b>	ACL TOP Series: continuous random access; ACL Elite and Elite Pro: modified random access
<b>Sample Handling System:</b>	ACL TOP Series: primary tubes (capped and uncapped), sample cups; ACL Elite and Elite Pro: primary tubes and sample cups
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	ACL TOP: 60/varies by test; ACL TOP 500 CTS: 60/varies by test; ACL Elite Pro: 22/varies by test; ACL Elite: 18/varies by test
<b>Reagents Refrigerated Onboard:</b>	ACL TOP: 44 refrigerated; ACL TOP 500 CTS: 40 refrigerated
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	ACL TOP Series: 120/800; ACL TOP 500 CTS: 80/800; ACL Advance: 120/264; ACL Elite and Elite Pro: 40/260; ACL 1000: 18/20
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	10 minutes
<b>Product:</b> ACL Top Series (with cap piercing capability)	
<b>Methodologies Used:</b> LED (optical) clot detection, chromogenic, immunologic	
<b>Tests Available in the U.S.:</b>	Recombinant PT, APTT, TT, Fibrinogen, D-dimer/D-dimer HS, VWF, Protein C, Protein S, APCR-V Leiden, AT, Heparin, Plasminogen, Plasmin Inhibitor, Lupus Anticoagulant, Factor Assays, Factor XIII
<b>Throughput:</b>	Up to 360 PTs/hour
<b>Time to First Result:</b>	PT < 3 minutes

<b>Sample Size:</b>	PT - 50 uL
<b>Frequency of Calibration:</b>	Varies by assay
<b>What differentiates your product from other products on the market?</b>	State-of-the-art technology featuring clot signature curve analysis and closed tube sampling; robust system offering continuous operation without interruption to workflow; minimized operator intervention using intuitive Windows software; 2D bar code for reagent, calibration and control value import. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Primary tubes (capped and uncapped) and sample cups
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Up to 60 reagents onboard/varies with assay
<b>Reagents Refrigerated Onboard:</b>	Yes, 44 reagents
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	120 continuous loading walkaway capacity/up to 30 tests per sample
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup and Daily Maintenance:</b>	< 10 minutes
<b>HEMATOLOGY</b>	
<b>Contact:</b>	Kelly Colwell (714) 961-4110 kmcolwell@beckman.com
<b>Product:</b>	COULTER® Ac•T™ 5diff CP; COULTER® Ac•T™ 5diff AL
<b>Methodologies Used:</b>	Impedance, absorbance cytochemistry and volume (ACV), spectrophotometry
<b>Tests Available in the U.S.:</b>	CBC, 5-part WBC differential
<b>Throughput:</b>	Up to 60 samples/hr for CP, up to 80 samples/hr for AL
<b>Time to First Result:</b>	~1 minute
<b>Sample Size:</b>	30-53 mL
<b>Frequency of Calibration:</b>	As required by the inspecting agency.
<b>What differentiates your product from other products on the market?</b>	Low review rates; 5-part differential; closed or open-vial sampling; 24-hour onboard QC files, AL has auto repeat. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Single sample; random access
<b>Separation Methodologies:</b>	Homogenous; no separation
<b>Sample Handling System:</b>	None (stat samples), or four-tube holders for size-variant tubes for CP and AL; 10 tube racks, 10 rack autoloader for AL
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	5/varies

<b>Walkaway Capacity in Specimen/ Tests Assays:</b>	N/A for CP, 100 tube/load for AL
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Start-up less than 5 minutes; no routine daily maintenance
<b>Product:</b>	COULTER® Ac•TT diff 2T™
<b>Methodologies Used:</b>	Impedance, COULTER® histogram differential
<b>Tests Available in the U.S.:</b>	CBC, 3-part WBC differential
<b>Throughput:</b>	Up to 60 samples/hour
<b>Time to First Result:</b>	Less than 60 seconds
<b>Sample Size:</b>	18 mL
<b>Frequency of Calibration:</b>	As required by the inspecting agency
<b>What differentiates your product from other products on the market?</b>	Closed (or open) vial sampling; automatic validation of quality control data (high/low flagging); storage of up to 250 patient results; triplicate counting; extended PLT Counting. Offers primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Batch
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Less than 5 minutes, zero routine daily maintenance
<b>Contact:</b>	Mary Beth Johnson (714) 993-8438 mbjohnson@beckman.com
<b>Product:</b>	Series LH 1500 Series: Complete Hematology Automation Line with up to 4 connected Coulter® LH 700 Series analyzers
<b>Tests Available in the U.S.:</b>	CBC, 5-part WBC differential, NRBCs, reticulocytes
<b>Other Utility Requirements:</b>	Air compressor
<b>What differentiates your product from other products on the market?</b>	Completely automates the hematology process for pre-analytical to post-analytical processing. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Single tube to allow repeat testing, reflex testing and sorting.
<b>Walkaway Capacity in Specimen/ Tests Assays:</b>	Varies

<b>Average Length of System Startup Time and Daily Maintenance:</b>	15 minutes
<b>Product:</b>	COULTER® LH 500
<b>Methodologies Used:</b>	AccuCount technology combined with the Coulter® impedance, flow cytometry; VCS differential technology
<b>Tests Available in the U.S.:</b>	CBC, 5-part WBC differential, reticulocyte
<b>Throughput:</b>	Up to 75 CBC/hour
<b>Time to First Result:</b>	~50 seconds
<b>Sample Size:</b>	185 uL automatic, 125 uL manual
<b>Frequency of Calibration:</b>	Twice per year or per regulatory requirements
<b>What differentiates your product from other products on the market?</b>	WBC linearity extends from zero to 200,000; platelet linearity extends from zero to 2 million; advanced autoverification software with onboard, user-defined decision rules helps standardize lab processes; low review rates; zero routine daily maintenance; backed by the industry's top-rated service and support. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Batch
<b>Separation Methodologies:</b>	Homogenous, no separation
<b>Sample Handling System:</b>	Cassettes
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	4/varies
<b>Walkaway Capacity in Specimen/ Tests Assays:</b>	Up to 25 samples at one time
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	5-7 minutes
<b>Product:</b>	LH 700 Series, includes the COULTER® LH 750 and COULTER LH 780 Hematology Systems
<b>Methodologies Used:</b>	AccuCount technology combined with the Coulter impedance, flow cytometry; VCS differential technology
<b>Tests Available in the U.S.:</b>	CBC, 5-part WBC differential, reticulocytes, NRBCs
<b>Throughput:</b>	Up to 110 CBC/hr
<b>Time to First Result:</b>	About 40 seconds
<b>Sample Size:</b>	300 mL automatic mode; 200 mL manual mode

<b>Frequency of Calibration:</b>	Twice a year or per regulatory requirements
<b>What differentiates your product from other products on the market?</b>	WBC linearity extends from zero to 400,000; platelet linearity extends from zero to 3 million; consistently accurate WBC, RBC and platelet counts without manual intervention; advanced autoverification software with onboard, user-defined decision rules to help standardize lab processes; low review rates; performs 6-part differentials including NRBCs; reticulocyte analysis; optional integrated slidemaker/slidestainer; remote monitoring and diagnostics technology for increased instrument uptime; backed by the industry's top-rated service and support. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type</b>	Random access
<b>Sample Handling System</b>	Cassettes
<b>Number of Reagent Containers Onboard/Tests/ Container</b>	5/varies
<b>Walkaway Capacity in Specimen/ Tests Assays:</b>	Liquid
<b>Up to 144 samples at one time</b>	Liquid
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	5-7 minutes
<b>Contact:</b>	Mary Beth Johnson mbjohnson@beckman.com
<b>Product:</b>	UniCel® DxH 800 Coulter® Cellular Analysis System
<b>Methodologies Used:</b>	Volumetric Impedance, Flow Cytometric Digital Morphology, Data Fusion, High-Definition Cellular Resolution, Multiple Angle Laser Light Scatter, Digital Signal Processing
<b>Tests Available in the U.S.:</b>	WBC, RBC, HgB, HCT, MCV, MCH, MCHC, RDW, RDW-SD, PLT, MPV, LY#, LY%, MO#, MO%, NE#, NE%, EO#, EO%, BA#, BA%, RETIC#, RETIC%, IRF, MRV, NRBC % & #, research use only parameters
<b>Throughput:</b>	Up to 100 samples/hr
<b>Time to First Result:</b>	> 1 minute
<b>Sample Size:</b>	165 µL Cassette or single tube presentation mode
<b>Frequency of Calibration:</b>	Twice a year or per regulatory requirements
<b>What differentiates your product from others on the market?</b>	Single Aspiration Pathway, eliminating mode-to-mode requirements; on-board, unlimited decision rules; optional floor stand; bar-coded, color-coded reagent management system; maximum reagent container size of 10L; Remote Management System for advanced troubleshooting; automated reflex and repeat testing; data fusion for advanced result accuracy and flagging; built-in automation; unique scalability options. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access

<b>Sample Handling System:</b>	Cassette
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Five/varies
<b>Walkaway Capacity in Specimen/ Tests Assays:</b>	100 per analyzer
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	Startup time: approximately 3 min.
<b>Biotest Diagnostics Corp.</b> www.biotestusa.com	
<b>AUTOMATION</b>	
<b>Contact:</b>	Joy Thomsen 800-522-0090 info@biotestusa.com
<b>Product:</b>	TANGO optimo
<b>Type of Analyzer:</b>	Automated blood bank instrument
<b>Methodologies Used:</b>	Hemagglutination is used for the Erytype assays. Dried monoclonal antisera coats the microwells. The placement and identity of the antisera is predetermined. Patient sample is added and reactions are graded and interpreted by the instrument. For the Solidscreen II assays, a solid phase method is employed. Uses microwells coated with Protein A that has a high affinity for the Fc portion of the anti-human globulin which attaches also to patient antibody. Solid phase offers advantages such as long shelf life, long onboard stability and outstanding specificity and sensitivity.
<b>Tests Available in the U.S.:</b>	ABO Forward and Reverse Grouping with D Typing, ABO and Rh Donor Confirmation, Antibody Screen Testing, Compatibility Testing, Direct Antiglobulin Testing, Antibody Identification, Weak D Testing, Phenotype Testing
<b>Throughput:</b>	24 blood typing / 60 mins 96 2-cell screens
<b>Time to First Result:</b>	17 minutes for typing, 32 minutes for screen
<b>Sample Size:</b>	500 microliters
<b>Other Utility Requirements:</b>	Deionized water; PBS saline
<b>What differentiates your product from other products on the market?</b>	Long onboard reagent shelf lives (up to 7 days), unique solid phase and erytype technology, stat capability, quick and simple daily and weekly maintenance, easy to operate, processes strips individually for minimal waste, reagents have up to a 2-year shelf life. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Onboard reagent storage: 10 microplates with positive plate and strip identification: 12 cooled liquid reagent positions (reagent red cells); 6 RT liquid reagent positions (bromelin, LISS and anti-IgG); 48 2-cell screens / plate (96 wells); 12 blood typing / plate (96 wells); 48 ABO or Rh confirmation typing / plate (96 wells); 550 tests / reagent red cell bottle & anti-IgG bottle 1400 tests / LISS bottle

<b>Reagents Refrigerated Onboard?</b>	Yes, up to 7 days
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Yes
<b>System Liquid or Dry:</b>	Both
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Hands-on 5 minutes, total 5 minutes

**Corgenix Inc.**  
www.corgenixonline.com

**IMMUNOASSAY**

<b>Contact:</b>	Denice Taylor (303) 453-8954 dtaylor@corgenix.com
<b>Product:</b>	DS2
<b>Methodologies Used:</b>	ELISA
<b>Tests Available in the U.S.:</b>	AspirinWorks Test, anti-Cardiolipin antibodies, anti-Beta-2 Glycoprotein antibodies, anti-Phosphatidylserine antibodies, anti-Prothrombin antibodies, IgG anti-AtherOx antibodies, anti-ANA, anti-dsDNA, von Willebrand Factor Antigen, von Willebrand Factor Activity, Protein C Antigen, Protein S Antigen
<b>Throughput:</b>	Depends on analyte
<b>Time to First Result:</b>	One hour
<b>Sample Size:</b>	10 - 100 microliters, depending on the analyte
<b>Frequency of Calibration:</b>	With each run
<b>What differentiates your product from others on the market?</b>	Integrated data management; open reagent system; primary tube sampling; positive sample ID; onboard dilution

**Diagnostica Stago**  
www.stago-us.com

**COAGULATION**

<b>Contact:</b>	Betty Dunn (800) 222-2624 Betty.dunn@stago-us.com
<b>Product:</b>	STA Compact
<b>Methodologies Used:</b>	Viscosity-based detection system for clotting assays; photo-optical methodology for chromogenic and immunologic assays
<b>Tests Available in the U.S.:</b>	PT, APTT, fibrinogen, D-dimer, thrombin time, Lupus A, intrinsic and extrinsic factor assays, vWF, free Protein S, reptilase, Protein C & S, heparin (LMWH & UFH), AT, plasminogen, antiplasmin. Numerous assays also available for research testing.
<b>Throughput:</b>	150 PTs/hour
<b>Time to First Result:</b>	< 5 minutes
<b>Sample Size:</b>	From 5 uL
<b>Frequency of Calibration:</b>	Varies with assay

<b>What differentiates your product from other products on the market?</b>	Barcoded reagents throughout product line; mechanical detection system; standardized results throughout product line; reliable hardware; connectivity to total lab automation systems. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	96 samples
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	45 reagents/varies with assay
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Varies with model
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	No daily maintenance

<b>Product:</b>	STA-R Evolution Expert Series
<b>Methodologies Used:</b>	Clotting, chromogenic, immunologic
<b>Tests Available in the U.S.:</b>	PT, APTT, fibrinogen, D-dimer, thrombin time, Lupus AC, intrinsic and extrinsic factor assays, vWF, free Protein S, reptilase, Protein C & S, heparin (LMWH & UFH), AT, plasminogen, antiplasmin. Numerous assays are also available for research testing.
<b>Throughput:</b>	300 PTs/hour
<b>Time to First Result:</b>	< 5 minutes
<b>Sample Size:</b>	from 5 uL
<b>Frequency of Calibration:</b>	Varies with assay
<b>What differentiates your product from other products on the market?</b>	Total lab automation capable, mechanical clot detection using VDS (viscosity-based detection system), standardization among all equipment in the Stago product line, cap-piercing option. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	240 samples
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	70 reagents/varies with assay
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	200 test set-ups

<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	< 5 minutes, no daily maintenance
<b>Product:</b> STA Satellite®	
<b>Methodology Used:</b>	Viscosity-based detection system for clotting assays, photo-optical methodology for chromogenic and immunologic assays
<b>Tests Available in the U.S.:</b>	PT, APTT, fibrinogen, D-dimer, AT, heparin (LMWH and UFH)
<b>Throughput:</b>	50+ PT/hr
<b>Time to First Result:</b>	< 7 minutes
<b>Sample Size:</b>	From 5 uL
<b>Frequency of Calibration:</b>	Varies with assay
<b>What differentiates your product from other products on the market?</b>	Standardized products and results across the instrument family using barcoded reagents and mechanical clot detection. Offers primary tube sampling, data management, onboard dilutions, positive sample ID and complete walk away automation for the low-volume coagulation laboratory.
<b>Operational Type:</b>	Random access
<b>Sample Handling System:</b>	20 onboard
<b>Number of Reagent Containers Onboard:</b>	16
<b>Reagents Refrigerated:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Varies
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Maintenance:</b>	No daily maintenance
<b>DiaSorin Inc.</b> www.diasorin.com	
<b>IMMUNOASSAY</b>	
<b>Contact:</b>	Greta Schwichtenberg (800) 328-1482 greta.schwichtenberg@diasorin.com
<b>Product:</b>	LIAISON®
<b>Methodologies Used:</b>	Fully-automated random access chemiluminescent
<b>Tests Available in the U.S.:</b>	25 OH Vitamin D, N-Tact PTH, EBV IgM, VCA IgG, EBNA IgG, EA(D) IgG, CMV IgG, CMV IgM, Toxo IgG, Toxo IgM, VZV IgG, Treponema (IgG/IgM), <i>Borrelia burgdorferi</i> , Rubella IgG, HSV-1 Type Specific IgG, HSV-2 Type Specific IgG, HAV Total Antibodies, HAV IgM, hGH
<b>Throughput:</b>	Max 180 tests per hour, assay dependent
<b>Time to First Result:</b>	17-35 minutes, assay dependent
<b>Sample Size:</b>	As low as 5 uL, assay dependent

<b>Frequency of Calibration:</b>	1-4 weeks, assay dependent
<b>Other Utility Requirements:</b>	Single standard power outlet, deionized water available (not directly connected to system)
<b>What differentiates your product from others on the market?</b>	The only fully automated, random access chemiluminescent analyzer available for 25OH Vitamin D, Treponema IgG/IgM, HSV-1 and HSV-2 Type Specific IgG, VZV IgG, CMV IgM and <i>Borrelia burgdorferi</i> assays. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Random access, batch mode setting also available
<b>Separation Methodologies:</b>	Paramagnetic microparticle
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Capacity for 15 reagent integrals/up to 3,000 tests onboard/50-200 tests per reagent integral
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	144 samples/1,500 tests/15 assays
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	20 minutes
<b>Contact:</b> Huizhen Li (800) 328-1482 huizhen.li@diasorin.com	
<b>Product:</b>	ETI-MAX 3000
<b>Methodologies Used:</b>	Microplate analyzer
<b>Tests Available in the U.S.:</b>	Infectious disease and autoimmune ELISA; contact manufacturer for detailed assay information
<b>Throughput:</b>	Assay dependent
<b>Time to First Result:</b>	2.5-5 hours, assay dependent
<b>Sample Size:</b>	> 10 uL, assay dependent
<b>Other Utility Requirements:</b>	Single standard power outlet, deionized water available (not directly connected to system)
<b>What differentiates your product from others on the market?</b>	Complete infectious disease and autoimmune menu; offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Batch
<b>Separation Methodologies:</b>	ELISA microplate
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Capacity: reagents for up to 384 tests onboard

<b>Reagents Refrigerated Onboard:</b>	No
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	160 samples/384 tests/8 assays
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	20 minutes
<b>Euroimmun US LLC</b> www.euroimmunus.com	
<b>IMMUNOASSAY</b>	
<b>Contact:</b>	(800) 913-2022 info@euroimmunus.com
<b>Product:</b>	Euroimmun Analyzer I
<b>Methodologies Used:</b>	Fully automated system for ELISA microtiter plates
<b>Tests Available in U.S.:</b>	Autoimmune diagnostics: comprehensive vasculitis, rheumatic diseases, gastrointestinal diseases, liver diseases product menu; Infectious serology: Broad menu available for IgG, IgM, IgA, avidity and CSF that include <i>Legionella pneumophila</i> , Diphtheria, Tetanus, <i>Yersinia enterocolitica</i> , <i>Brucella abortus</i> , <i>Mycoplasma pneumoniae</i> , <i>Echinococcus granulosus</i> , HSV 1, HSV 2, Measles, Mumps, Influenza A, Influenza B, Parainfluenza Pool. Additional assays will be available in U.S. shortly.
<b>Throughput:</b>	600 in 8 hours
<b>Time to First Result:</b>	120 minutes
<b>Sample Size:</b>	5 - 300 uL
<b>Frequency of Calibration:</b>	Per run
<b>What differentiates your product from other products on the market?</b>	High safety and reliability with barcode identification for patient samples and all reagents; walk away function: interference-free process, fully automated from the start to the end of the processing; memory function for use of disposable tips and pre-dilution deep well plates; continuous reloading function of patient samples, microtiter plates, reagents and disposable tips. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution. Bidirectional online connection to laboratory computer system.
<b>Operational Type:</b>	Continuous reloading capability
<b>Separation Methodologies:</b>	Homogeneous
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Up to 7 ELISA Micro plates; 3 x 96 pre-dilution positions; 120 patient samples; 12 different tests; 26 reagents and 54 controls and calibrators (depending on rack configuration); 5 tip racks; continuous reloading function of patient samples, microtiter plates, reagents and disposable tips.
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Yes
<b>System Liquid or Dry:</b>	Liquid

<b>Average Length of System Startup Time and Daily Maintenance:</b>	5 minutes
<b>Grifols USA LLC</b> www.grifols.com	
<b>IMMUNOASSAY</b>	
<b>Contact:</b>	Stephanie Sorenson (323) 227-7415 stephanie.sorenson@grifols.com
<b>Product:</b>	Triturus
<b>Type of Analyzer:</b>	Fully automated, open immunoassay system
<b>Methodologies Used:</b>	Standard 96-well ELISA
<b>Tests Available in the U.S.:</b>	The Triturus is completely open; any U.S. clinically-cleared and research-use-only EIA procedure can be programmed: infectious disease, autoimmune disease, bone markers, endocrinology, hemostasis, oncology markers, hepatitis and HIV profiles
<b>Throughput:</b>	Dependent on reagent used
<b>Time to First Result:</b>	Dependent on reagent used
<b>Sample Size:</b>	Dependent on reagent used; > 350 uL
<b>Frequency of Calibration:</b>	Monthly
<b>Other Utility Requirements:</b>	Saline, deionized water
<b>What differentiates your product from others on the market?</b>	Intuitive software; open system; integrated data management; primary tube sampling; positive sample ID; onboard dilution
<b>Operational Type:</b>	Batch, with ability to start new batches at any time
<b>Separation Methodologies:</b>	Coated microwell
<b>Sample Handling System:</b>	Universal carousel
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	8 distinct tests at one time; 4 96-well plates
<b>Reagents Refrigerated Onboard:</b>	No
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Complete walkaway capacity
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	1 to 5 minute startup
<b>HandyLab</b> www.handylab.com	
<b>MOLECULAR DIAGNOSTICS</b>	
<b>Contact:</b>	Mark Powelson (734) 663-4719, ext. 263 mpowelson@handylab.com

<b>Product:</b>	Jaguar
<b>Methodologies Used:</b>	Jaguar integrates and automates proprietary extraction technology with microfluidic real-time PCR
<b>Tests Available in the U.S.:</b>	Customers are running laboratory developed tests. Group B Strep has been submitted for FDA clearance.
<b>Throughput:</b>	~168 tests per 9-hour shift
<b>Time to First Result:</b>	45 minutes
<b>Sample Size:</b>	Specimen dependent
<b>Other Utility Requirements:</b>	100-240 VAC
<b>What differentiates your product from others on the market?</b>	The Jaguar integrates and automates sample preparation through amplification and detection without operator interaction impacting the workflow of the molecular diagnostics laboratory. The proprietary extraction technology processes DNA and RNA with a greater than 90% efficiency. The microfluidic real-time PCR can provide rapid results to clinicians. Offers integrated data management, open reagent system and positive sample ID.
<b>Operational Type:</b>	Can perform multiple extraction protocols and PCR protocols simultaneously
<b>Separation Methodologies:</b>	Magnetic affinity beads
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	The system can perform from 1 to 24 tests at any time using unitized reagent strips.
<b>Reagents Refrigerated Onboard:</b>	All reagents are stored at room temperature.
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	24
<b>System Liquid or Dry:</b>	Can utilize lyophilized reagents or a laboratory's liquid probes and primers
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	No daily maintenance; system on 24 hours a day

## Horiba Medical

www.horiba.com

### CHEMISTRY

<b>Contact:</b>	Chuck Rebisz (888) 903-5001 chuck.rebisz@horiba.com
<b>Product:</b>	Abx Pentra 400
<b>Methodologies Used:</b>	Colorimetric, turbidimetric, potentiometric
<b>Tests Available in the U.S.:</b>	Albumin, Alk Phos, ALT, Amylase, AST, Total Bilirubin, Direct Bilirubin, BUN, Calcium, Cholesterol, CK, CO2, Creatinine, GGT, Glucose, HDL Direct, Iron, Lactic Acid, LDH, LDL Direct, Lipase, Magnesium, Phosphorus, Total Protein, Triglycerides, Uric Acid, Urinary Proteins, Sodium, Potassium, Chloride, ASO, CRP, Haptoglobin, Micro Albumin, Myoglobin - Analyzer also has open channels
<b>Throughput:</b>	Up to 420 tests per hour
<b>Time to First Result:</b>	2 to 12 minutes

<b>Sample Size:</b>	2 to 60 uL; assay dependent
<b>Frequency of Calibration:</b>	Varies
<b>Other Utility Requirements:</b>	Uses Reagent Grade Type I water
<b>What differentiates your product from others on the market?</b>	Easy-to-use touch screen, liquid level detection, clot detection, crash protection for primary tube sampling / sample cups. Unlimited patient storage, integrated data management with validation station, remote diagnostics. Analyzer does pre-dilution, post concentration, automatic rerun with up to 52 reagent cassettes onboard. Optical system - grating spectrophotometer, disposable cuvettes. Onboard user manual and methodology sheets for quick reference. Offers open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	6 racks holding 10 samples each
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	52 reagent cassettes can be placed onboard at one time with 3 ISE tests (Na, K, Cl)
<b>Reagents Refrigerated Onboard:</b>	Yes; also 8 RT positions
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Up to 2 hours
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	5 minutes

### HEMATOLOGY

<b>Contact:</b>	Jim Knowles (888) 903-5001 jim.knowles@horiba.com
<b>Product:</b>	Pentra XL80, P60C+, P60OT
<b>Methodologies Used:</b>	Impedance, absorbance cytochemistry
<b>Tests Available in the U.S.:</b>	CBC, 5-part WBC Differential
<b>Throughput:</b>	Up to 60 samples/hr for P60 OT/C+, up to 80 samples /hr for Pentra XL80
<b>Time to First Result:</b>	1 minute
<b>Sample Size:</b>	30 uL for CBC, 53 uL for CBC with 5-part Diff
<b>Frequency of Calibration:</b>	As required by local regulations
<b>What differentiates your product from others on the market?</b>	Low Review rates: 5-part differential; closed- or open-tube sampling, Pentra XI 80 has auto rerun, validation criteria and integrated data management, primary tube sampling, positive sample ID and onboard customized dilution ratios.
<b>Operational Type:</b>	Single sample and continuous random access
<b>Separation Methodologies:</b>	Homogenous, no separation
<b>Sample Handling System:</b>	4-position tube holder for various size tubes for P60 OT/C+; 10 tube racks for Pentra XL 80 autoloader

<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	5 reagents onboard
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	N/A for P60 OT/C+, 100 tube/load for Pentra XL80
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	Start-up less than 5 minutes; no routine daily maintenance
<b>Product:</b> Pentra DX120/SPS	
<b>Methodologies Used:</b>	Impedance, absorbance cytochemistry, fluorometry and DHSS
<b>Tests Available in the U.S.:</b>	CBC, 5-part WBC differential, NRBCs and reticulocytes
<b>Throughput:</b>	Up to 120 samples/hour
<b>Time to First Result:</b>	> 1 minute
<b>Sample Size:</b>	200 uL autoloader mode, 130 uL open tube mode
<b>Frequency of Calibration:</b>	As required by local regulations
<b>What differentiates your product from others on the market?</b>	Operates in reflex mode and auto-rerun depending on customer's needs. Customized decision rules improve information workflow and standardize processes in lab. Low review rates, integrated data management, primary tube sampling, positive sample ID.
<b>Operational Type:</b>	Single sample and continuous random access
<b>Separation Methodologies:</b>	Homogeneous, no separation
<b>Sample Handling System:</b>	10 tube racks for Pentra DX120 autoloader
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	6 onboard reagents
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Up to 150 sample loading capacity
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	5-10 minutes / varies
<b>Product:</b> ABX Micros 60/ IM2	
<b>Methodologies Used:</b>	Impedance, 3-part WBC histogram differential
<b>Tests Available in the U.S.:</b>	CBC, 3-part WBC differential
<b>Throughput:</b>	Up to 60 samples/hour
<b>Time to First Result:</b>	< 60 seconds
<b>Sample Size:</b>	10 uL

<b>Frequency of Calibration:</b>	As required by local regulations
<b>What differentiates your product from others on the market?</b>	Data management options from Smart Card technology for Micros 60 up to fully integrated data management with EMR or LIS-ready configurations on the Micros IM2. Up to three system connections on the IM2 data management platform. Comprehensive middleware technology, flexible patient reporting, delta checking and large data base storage capabilities. Offers primary tube sampling and positive sample ID.
<b>Operational Type:</b>	Single sample
<b>Separation Methodologies:</b>	Homogeneous, no separation
<b>Sample Handling System:</b>	4-position tube holder for various size tubes for Micros 60 or IM2
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Only 3 reagents
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	< 5 minutes; no daily routine maintenance
<b>Product:</b> Micros CRP 200	
<b>Methodologies Used:</b>	Impedance, 3-part WBC histogram differential CRP Latex immuno turbidity rate method
<b>Tests Available in the U.S.:</b>	CBC, 3-part differential and C-reactive protein
<b>Throughput:</b>	CBC mode 48 samples/hr CBC+CRP mode 14 samples/hr
<b>Time to First Result:</b>	CBC mode 1'15" CBC+CRP mode 4'30"
<b>Sample Size:</b>	CBC mode 10 uL, CBC+CRP mode 18 uL
<b>Frequency of Calibration:</b>	As required by local regulations
<b>What differentiates your product from others on the market?</b>	Simultaneous testing of CBC with 3-part differential and quantitative C-reactive protein all done on the same EDTA sample. Integrated data management with IM2 technology; primary tube sampling
<b>Operational Type:</b>	Single sample
<b>Separation Methodologies:</b>	Homogeneous, no separation
<b>Sample Handling System:</b>	4-position tube holder for various size tubes
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	4 onboard reagents
<b>Reagents Refrigerated Onboard:</b>	CRP reagent placed in cooled chamber
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	Startup < 5 minutes

<b>Inverness Medical</b> www.invernessmedicalpd.com	
<b>IMMUNOASSAY</b>	
<b>Contact:</b>	Michelle Fradette (877) 546-8633 bodytalks@invmed.com
<b>Product:</b>	AtheNA Multi-Lyte®
<b>Methodologies Used:</b>	Multiplexed, fluorescent bead-based system using patented xMAP technology
<b>Tests Available in the U.S.:</b>	ANA test system (ANA screen, dsDNA, Sm, RNP, SSA, SSB, Jo-1, Sci-70, centromere, histone), EBV-G test system (VCA, EBNA, EA), EBV-M test system (VCA), ANCA screen (MPO, PR-3), TPO/Tg, RF, MMV IgG test system (measles, mumps, varicella), MMRV IgG test system (measles, mumps, varicella), Vasculitis IgG test system (MPO, PR3, GBM), HSV (type specific HSV-1, HSV-2)
<b>Throughput:</b>	1 plate with up to 5 assays
<b>Time to First Result:</b>	2 hours for 96-well plate for all analytes in a specific test system
<b>Sample Size:</b>	12 sample racks, 20 sample tube positions for 240 samples
<b>Frequency of Calibration:</b>	Lot-specific
<b>What differentiates your product from others on the market?</b>	Integrated data management, open reagent system
<b>Operational Type:</b>	Batch
<b>Separation Methodologies:</b>	Bead
<b>Sample Handling System:</b>	Rack
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	10-15 minutes
<b>Product:</b>	AIMS®
<b>Methodologies Used:</b>	Multiplexed, fluorescent bead-based system using patented xMAP technology
<b>Tests Available in the U.S.:</b>	ANA test system (ANA screen, dsDNA, Sm, RNP, SSA, SSB, Jo-1, Sci-70, centromere, histone), EBV-G test system (VCA, EBNA, EA), EBV-M test system (VCA), ANCA screen (MPO, PR-3), TPO/Tg, RF, MMV IgG test system (measles, mumps, varicella), MMRV IgG test system (measles, mumps, varicella), Vasculitis IgG test system (MPO, PR3, GBM), HSV (type specific HSV-1, HSV-2)
<b>Throughput:</b>	Up to two 96-well plates with up to four assays for either AtheNA or ELISA
<b>Time to First Result:</b>	2 hours for 96-well plate for all analytes in a specific test system
<b>Frequency of Calibration:</b>	Lot-specific
<b>What differentiates your product from others on the market?</b>	AIMS (Automated Immunoassay Multiplexing System) offers the benefits of the AtheNA Multi-Lyte Technology with the option of also running ELISA tests, making it the first fully integrated and automated, open, multi-methodology system. This offers labs maximum versatility in autoimmune and infectious disease diagnostic testing. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.

<b>Operational Type:</b>	Batch
<b>Separation Methodologies:</b>	Bead and/or ELISA tests
<b>Sample Handling System:</b>	Rack
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	10-15 minutes
<b>Product:</b>	DSX®
<b>Methodologies Used:</b>	ELISA 4-plate processing system
<b>Tests Available in the U.S.:</b>	Chlamydia, CMV, EBV-EA, EBNA, EBV-VCA, <i>H. pylori</i> , HSV, Legionella, Lyme, Measles, Mumps, Myco, Parvovirus B-19, Rubella, Syphilis, Toxo, VZV. AI-ANCA, ANA, CCP, ASCA, Beta 2, Cardiolipins, dsDNA, ENA, Gliadin, Histone, Jo-1, Mitochondria, MPO, PR-3, RF, Ribosomal P, Sci-70, SM, SM/RNP, SS-A, SS-B, TPO, TG, TTG. Osteo- NTx, Bladder Cancer NMP22, Enterics – Tox AB, GDH, Crypto, Giardia, E Histo, ASCA, IBD, Leuko
<b>Throughput:</b>	Up to 12 different assays per plate simultaneously in up to four 96-well microplates
<b>Time to First Result:</b>	Approximately 2 hours for a full 96-well plate
<b>Sample size:</b>	10-20 µl sample tube positions for 96 samples
<b>Frequency of calibration:</b>	Lot specific
<b>Other Utility Requirement:</b>	4 wash buffer containers plus 1 waste container
<b>What differentiates your product from other products on the market?</b>	Completely open system allows lab to run virtually any ELISA-based assay. Modular design allows the lab to customize the system by adding extra incubators, including a barcode scanner, or even choosing certain types of sample racks. Open reagent system offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Batch
<b>Separation Methodologies:</b>	Coated microwell
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	24 reagent plus 33 control containers
<b>Reagents Refrigerated Onboard:</b>	No
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Perform entire complement of analytical steps required for ELISA immunoassays; adding samples and reagents, washing, incubation and absorbance detection.
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	5 minutes

<b>Product:</b>	DS2®
<b>Methodologies Used:</b>	ELISA 2- plate processing system
<b>Tests Available in the U.S.:</b>	Chlamydia, CMV, EBV-EA, EBNA, EBV-VCA, <i>H. pylori</i> , HSV, Legionella, Lyme, Measles, Mumps, Myco, Rubella, Syphilis, Toxo, VZV. AI-ANCA, ANA, CCP, ASCA, Beta 2, Cardios, dsDNA, ENA, Gliadin, Histone, Jo-1, Mitochondria, MPO, PR-3, RF, Ribosomal P, Scl-70, SM, SM/RNP, SS-A, SS-B, TPO, TG, TTG. Osteo- NTx, Bladder Cancer NMP22, Enterics – Tox AB, GDH, Crpto, Giardia, E Histo, ASCA, IBD, Leuko
<b>Throughput:</b>	Up to 12 different assays per plate simultaneously in up to two 96-well microplates
<b>Sample Size:</b>	10-20 µl sample tube positions for 100 samples
<b>Other Utility Requirement:</b>	2 wash buffer containers plus one waste container
<b>What differentiates your product from other products on the market?</b>	Small automated option for manual customers looking to automate. Its completely open system allows a customer to run virtually any ELISA-based assay; offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Batch
<b>Separation Methodologies:</b>	Coated well
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	18 reagent plus 24 control containers
<b>Reagents Refrigerated Onboard:</b>	No
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Performs entire complement of analytical steps required for ELISA immunoassays; adding samples and reagents, washing, incubation and absorbance detection
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	5 minutes

### Mindray Medical International Ltd.

www.mindray.com

#### HEMATOLOGY, CHEMISTRY

<b>Product:</b>	BC-3200; BC-2800vet; BS-200
<b>Methodologies Used:</b>	Hematology: laser scatter, flow cytometry, chemical dye, impedance method and colorimetry; Chemistry: colorimetry and turbidimetry
<b>Tests Available in the U.S.:</b>	16 hematology parameters and 39 chemistry parameters
<b>Throughput:</b>	BC-3200: 60 samples per hour; BC-2800vet: 25 samples per hour; BS-200: 200 tests/hour, 330 tests/our with ISE
<b>Time to First Result:</b>	BC-3200FDA: 1 minute; BC-2800vet: 2 minutes; BS-200: 10 minutes
<b>Sample Size:</b>	BC-3200: < 150 samples/day; BC-2800vet: < 50 samples/day; BS-200: < 50 samples/day
<b>Frequency of Calibration:</b>	6 months

<b>Other Utility Requirements:</b>	Reagent and detergent
<b>What differentiates your product from others on the market?</b>	High quality, competitively priced. Offers open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Hematology: one by one; Chemistry: random access
<b>Separation Methodologies:</b>	Homogeneous
<b>Sample Handling System:</b>	Segment
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	BS-200: 40 positions
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Yes
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	5-7 minutes for startup time; 5 minutes for daily maintenance

### Nova Biomedical

www.novabiomedical.com

#### CHEMISTRY

<b>Contact:</b>	Richard Rollins (781) 647-3700 rrollins@novabio.com
<b>Product:</b>	Stat Profile® Critical Care Xpress (CCX)
<b>Methodologies Used:</b>	Depending on test: direct ISE; enzyme/amperometric; Severinghaus; amperometric; optical, reflectance; conductivity; multi-wavelength reflectance; enzyme/direct ISE; spectrophotometry
<b>Tests Available in the U.S.:</b>	pH, pCO <sub>2</sub> , pO <sub>2</sub> , SO <sub>2</sub> %, Hct, Hb, Na+, K+, Cl-, Ca <sup>++</sup> , Mg <sup>++</sup> , Glucose, BUN, Creatinine, Lactate, tBil, HbH, O <sub>2</sub> Hb, MetHb, COHb
<b>Throughput:</b>	38 samples/hr (high throughput); 23 samples/hr (routine throughput)
<b>Time to First Result:</b>	62 seconds (high throughput); 134 seconds (routine throughput)
<b>Sample Size:</b>	60-210 microliters (depending upon menu selected)
<b>Frequency of Calibration:</b>	Fully automatic 2-point calibration every 2 hours; user-selectable single point calibration every 45 minutes or with each sample. Manual calibration initiated at any time.
<b>What differentiates your product from others on the market?</b>	Color touch screen; integrated co-oximeter; calculates eGFR with creatinine measurement; snap-in reagent cartridges with sealed waste system; automated, onboard quality control; tankless gas calibration; SmartCheck automated maintenance; integrated data management; primary tube sampling; positive sample ID.
<b>Operational Type:</b>	Single sample
<b>Separation Methodologies:</b>	N/A; whole blood

<b>Number of Reagent Containers Onboard/Tests/Container:</b>	Up to 5 snap-in reagent cartridges with sealed waste system
<b>Reagents Refrigerated Onboard:</b>	No
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	1
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	Cold startup time: 5 minutes. No daily maintenance required. Auto cal and QC.

## Olympus Corp. of the Americas

www.olympusamerica.com

### CHEMISTRY

<b>Contact:</b>	Frank Bartholf (484) 896-5412 frank.bartholf@olympus.com
<b>Product:</b>	Automated chemistry analyzers
<b>Methodologies Used:</b>	Photometric, turbidimetric, rate reaction and ISE
<b>Tests Available in the U.S.:</b>	125 test including routine chemistries, urine chemistries, electrolytes, therapeutic drugs, drugs of abuse, specific proteins and esoteric tests
<b>Throughput:</b>	Up to 1,200 tests/hr
<b>Time to First Result:</b>	Electrolytes can be available in less than 2 minutes
<b>Sample Size:</b>	As low as 1.6 uL
<b>Frequency of Calibration:</b>	Average 30 days
<b>Other Utility Requirements:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	The AU680 offers a high level of flexibility with a large test menu and up to a total of 108 onboard reagent cartridges (60 R1 & 48 R2) plus 3 ISEs. Designed for use as a stand-alone or Direct Track Sampling analyzer that also performs fully automated HbA1c testing on whole blood. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Ten tube racks with up to 15 at one time, plus a 22-position stat wheel
<b>Number of Reagent Containers Onboard/Tests/Container:</b>	Up to 108 reagent cartridges plus 3 ISE, with multiple cartridge sizes, 15, 30, 60 and 120 mL that can provide up to 1,570 tests/cartridge depending on the test
<b>Reagents Refrigerated Onboard?</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	150 samples on primary sample load area with up to 63 tests per sample
<b>System Liquid or Dry:</b>	Liquid

<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily maintenance: 6 minutes per day; if left in standby is ready to operate. Can be pre-programmed for automatic turn-on at a certain time to allow the photometer lamp to reach stability after 20 minutes.
<b>Product:</b>	AU480
<b>Methodologies Used:</b>	Photometric methods (endpoint with and without blanking, kinetic, fixed rate) and ISE
<b>Tests Available in the U.S.:</b>	Expansive menu of > 125 tests including routine chemistries, urine chemistries, stats, electrolytes, therapeutic drug monitoring, drugs of abuse, specific proteins and esoteric tests. Reagents are available in bar coded packaging.
<b>Throughput:</b>	Up to 400 photometric tests/hour and up to 800 tests/hr with ISEs
<b>Time to First Result:</b>	< 5 minutes for stats, 9 minutes for routine tests
<b>Sample Size:</b>	1-25 microliters
<b>Frequency of Calibration:</b>	Median calibration frequency: 30 days for routine chemistries; 14 days for TDMs, DAUs and special chemistries
<b>Other Utility Requirements:</b>	Deionized CAP Type II Water
<b>What differentiates your product from others on the market?</b>	Olympus reliability, a comprehensive menu of > 125 test methods, standardized reagents, racks and operation with the broad family of AU Chemistry analyzers, and top-rated support including SUPPORTVISION™ for Web-enabled real-time monitoring. Offers integrated data management, open reagent system, positive sample ID, primary tube sampling and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Homogenous
<b>Sample Handling System:</b>	Rack and ring
<b>Number of Reagent Containers Onboard/Tests/Container:</b>	Number of R1/R2 reagent cartridges = 76. Number of tests/cartridge varies from 50 - 1,000 depending on the type of test and cartridge size (Olympus offers multiple cartridge sizes for routine chemistry tests).
<b>Reagents Refrigerated Onboard:</b>	76 R1/R2 positions
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Up to 102 specimens; up to 38,000 tests
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	5 minutes daily
<b>IMMUNOASSAY</b>	
<b>Contact:</b>	Lorraine Damico (800) 896-5000 lorraine.damico@olympus.com
<b>Product:</b>	AU3000® Immunoassay System
<b>Methodologies Used:</b>	1-step, 2-step and competitive assays; chemiluminescence
<b>Tests Available in the U.S.:</b>	TSH, T4, fT4, T3, fT3, T-Uptake, LH, FSH and PROL; PROG is pending U.S. release and bHCG, CEA and AFP are under FDA review; PSA and fPSA are in the trial phase in the U.S.
<b>Throughput:</b>	Up to 240 tests/hour

<b>Time to First Result:</b>	28 minutes; 18 minutes for stat
<b>Sample Size:</b>	Assay dependent
<b>Frequency of Calibration:</b>	Every 28 days
<b>Other Utility Requirement:</b>	Dedicated water system/11 gallons per hour at max throughput
<b>What differentiates your product from other products on the market?</b>	Walk-away time up to 4.5 hours; fourth generation TSH; 10-position racks simplify testing of assays; standardized graphical user interface simplifies training and ease of use; SupportVision for secure Web tracking and proactive service monitoring; crash prevention and liquid sensing probes; on-the-fly bulk loading of pipette tips and cuvettes with 1,000-tip and 1,000-cuvette capacity; multipoint calibration supported and multiple calibrations stored for same assay; top-ranking Olympus service and support. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Magnetic particle
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	24/assay dependent (200, 100 or 50)
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	300/1,000
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily: < 5 minutes; Weekly: < 30 minutes

<b>Radiometer America Inc.</b> www.radiometeramerica.com	
<b>BLOOD GAS</b>	
<b>Contact:</b>	Heidi Egensperger (440) 871-8900 hegensperger@radiometeramerica.com
<b>Product:</b>	ABL80 FLEX CO-OX
<b>Methodologies Used:</b>	Thick-film sensors
<b>Tests Available in the U.S.:</b>	pH, pCO <sub>2</sub> , pO <sub>2</sub> , Ca <sup>++</sup> , K <sup>+</sup> , Cl <sup>-</sup> , Na <sup>+</sup> , Glu, Hct, tHb, sO <sub>2</sub> , FO <sub>2</sub> Hb, FCO <sub>2</sub> Hb, FMetHb, FHHb and many derived parameters
<b>Throughput:</b>	26-36 samples/hr depending on model
<b>Time to First Result:</b>	100-140 seconds, depending on model
<b>Sample Size:</b>	70-105 uL, depending on model
<b>Frequency of Calibration:</b>	Daily

<b>What differentiates your product from others on the market?</b>	Smaller, faster, lighter than any blood gas/acute care analyzer in its class. Cassette-based, no maintenance, easy to use, smaller sample size, faster results and TAT for blood gas and acute care testing in decentralized areas of the hospital for improved patient care. Offers integrated data management, primary tube sampling and positive sample ID.
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Test cassettes and solution packs are available in various sizes for maximum efficiency to best meet the testing volumes in all areas of the hospital.
<b>System Liquid or Dry:</b>	Dry sensor technology
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	18 minutes from a cold start
<b>Contact:</b>	Alan Beder (440) 871-8900 Abeder@radiometeramerica.com
<b>Product:</b>	ABL800 FLEX Series
<b>Methodologies Used:</b>	Potentiometric, amperometric and optical sensors
<b>Tests Available in the U.S.:</b>	pH, pCO <sub>2</sub> , pO <sub>2</sub> , Ca <sup>++</sup> , K <sup>+</sup> , Cl <sup>-</sup> , Na <sup>+</sup> , Glu, Lac, Crea, tHb, sO <sub>2</sub> , FO <sub>2</sub> Hb, FMetHb, tBil, FHHb and many derived parameters
<b>Throughput:</b>	21-25 samples/hr depending on configuration
<b>Time to First Result:</b>	80-100 seconds, depending on model and mode
<b>Sample Size:</b>	35-250 uL, depending on model and mode
<b>Frequency of Calibration:</b>	Daily
<b>What differentiates your product from others on the market?</b>	Only whole blood creatinine measurement validated by the IDMS reference method. First whole blood total bilirubin and interference free CO-Oximetry. FLEXQ module allows positive sample identification, automated mixing and closed sampling for enhanced user and patient safety. Offers integrated data management and primary tube sampling.
<b>Sample Handling System:</b>	FLEXQ module for automated sampling
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	3
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	4
<b>System Liquid or Dry:</b>	Wet chemistry
<b>Average Length of System Startup Time and Daily Maintenance:</b>	From a cold start 10 minutes. No daily maintenance.
<b>IMMUNOASSAY</b>	
<b>Contact:</b>	Cindy Wuertz (440) 871-8900 cwuertz@radiometeramerica.com
<b>Product:</b>	AQT90
<b>Methodologies Used:</b>	Time-resolved fluorescence
<b>Tests Available in the U.S.:</b>	Pending FDA clearance: Tnl, CK-MB, Myoglobin, bHCG

<b>What differentiates your product from others on the market?</b>	Ease of use, integrated data management, primary tube sampling, positive sample ID
<b>Operational Type:</b>	Random access
<b>Separation Methodologies:</b>	Whole-blood testing
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	240
<b>Reagents Refrigerated Onboard:</b>	No
<b>System Liquid or Dry:</b>	Both

### Roche Diagnostics

<https://us.labsystems.roche.com>

#### AUTOMATION

<b>Contact:</b>	Ed Duning (317) 521-4710 Ed.duning@roche.com
<b>Product:</b>	Modular Pre-Analytics
<b>Throughput:</b>	Maximum of 400 samples per hour with 2 centrifuges
<b>Sample Size:</b>	Varies by number of tests requested

<b>What differentiates your product from others on the market?</b>	Modular design allows for customization and increased efficiency and productivity. Connections to analytics can be made in any direction. Industry leading system reliability and service. Provides integrated data management, primary tube sampling and positive patient ID.
--	--

<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	5-position rack
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	300 samples
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	Daily maintenance: < 5 minutes per day

#### CHEMISTRY

<b>Contact:</b>	Adam Sterle (317) 521-3099 Adam.sterle@roche.com
<b>Product:</b>	cobas c 311 analyzer
<b>Methodologies Used:</b>	Photometric, ISE, immunoturbidimetric
<b>Tests Available in the U.S.:</b>	Substrates, enzymes, ISE, drugs of abuse, therapeutic drugs, specific proteins, whole blood HbA1c
<b>Throughput:</b>	Up to 300 results per hour
<b>Time to First Result:</b>	5 minutes
<b>Sample Size:</b>	Typically 2-10 uL
<b>Frequency of Calibration:</b>	Typically once per lot
<b>Other Utility Requirements:</b>	Deionized water

<b>What differentiates your product from others on the market?</b>	Standardized chemistry solution incorporates common reagents and user interface (similar to other cobas modular series analyzers). Combines ease of use and proven Hitachi reliability. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Homogenous
<b>Sample Handling System:</b>	108 position sample disk
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	42 reagent positions (75 - 800 tests per c pack)
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Up to 100 samples
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	Startup: 5 minutes; daily maintenance: < 30 minutes

#### CHEMISTRY/IMMUNOASSAY

<b>Contact:</b>	Sheila Brewer (317) 521-4804 Sheila.brewer@roche.com
<b>Product:</b>	cobas 6000 analyzer series
<b>Methodologies Used:</b>	Photometry, ISE, homogeneous immunoassay, immunoturbidimetric, electrochemiluminescence
<b>Tests Available in the U.S.:</b>	Substrates, enzymes, ISE, drugs of abuse, therapeutic drugs, specific proteins, whole blood HbA1c, cardiac, thyroid, bone, fertility
<b>Throughput:</b>	Up to 1,000 tests per hour for chemistry and 170 tests per hour for immunoassay
<b>Time to First Result:</b>	Assay dependent, 5-27 minutes
<b>Sample Size:</b>	Typically 2-50 uL
<b>Frequency of Calibration:</b>	Typically once per lot
<b>Other Utility Requirements:</b>	Deionized water
<b>What differentiates your product from others on the market?</b>	Second generation integrated analyzer combining chemistry and immunoassay. Modular design (seven different configurations) for customization. Chemistry or immunoassay modules can be added at a later date. Offers integrated data management, primary tube sampling, open reagent system, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Homogeneous immunoassay (chemistry), heterogeneous immunoassay (IA)
<b>Sample Handling System:</b>	5 position rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Up to 60 reagent c-packs (75-800 tests each) and 3 ISE's for chemistry, up to 25 different assays for immunoassay

<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Up to 150 samples
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	Startup: < 5 minutes; daily maintenance: < 30 minutes
<b>Contact:</b>	
	Leslie Casciato (317) 521-4011 leslie.casciato@roche.com
<b>Product:</b>	Modular Analytics
<b>Methodologies Used:</b>	Photometry, ISE, immunoturbidometry, electrochemiluminescence
<b>Tests Available in the U.S.:</b>	Substrates, enzymes, ISE, drugs of abuse, therapeutic drugs, specific proteins, cardiac, thyroid, bone, fertility
<b>Throughput:</b>	D module: up to 2,400 results per hour; P module: up to 800 results per hour; E module: up to 170 results per hour; ISE up to 1,800 results per hour
<b>Time to First Result:</b>	< 5 minutes
<b>Sample Size:</b>	Typically 2-50 uL
<b>Frequency of Calibration:</b>	Typically once per lot
<b>Other Utility Requirements:</b>	Deionized water
<b>What differentiates your product from others on the market?</b>	Integrated modular system consisting of D module for high volume chemistries, P module for all chemistries including esoterics, E module for immunoassay. Modular design for customization and upgrading. Ability to seamlessly connect to automation. Offers integrated data management, primary tube sampling, positive sample ID, onboard dilution and open reagent system.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Homogeneous and heterogeneous immunoassay
<b>Sample Handling System:</b>	5-position rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	D module: 16 reagent positions (500 - 4,000 tests); P module: 44 reagent positions (100 - 1,000 tests); E module: 25 reagent positions (100 - 200 tests)
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Up to 300 samples
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	< 25 minutes
<b>IMMUNOASSAY</b>	
<b>Contact:</b>	Adam Sterle (317) 521-3099 Adam.sterle@roche.com

<b>Product:</b>	cobas e 411 analyzer
<b>Methodologies Used:</b>	Electrochemiluminescence
<b>Tests Available in the U.S.:</b>	Cardiac, thyroid, bone, tumor, fertility, infectious disease
<b>Throughput:</b>	Up to 88 results per hour
<b>Time to First Result:</b>	9-18 minutes
<b>Sample Size:</b>	10-50 uL
<b>Frequency of Calibration:</b>	Typically once per lot
<b>What differentiates your product from others on the market?</b>	Fully automated system for low end sensitivity and broad assay ranges. Utilizes common IA reagent packaging and user interface, allowing for minimized training. Nine-minute assays available for critical tests including TnT, CK-MB, Myoglobin, HCG and PTH. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Heterogeneous immunoassay (electrochemiluminescence)
<b>Sample Handling System:</b>	5 position rack or 30 position disk
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Up to 18 reagent positions, 100-200 tests per kit
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	75 or 30 samples
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance:</b>	Startup: < 10 minutes; daily maintenance: < 10 minutes

### Siemens Healthcare Diagnostics

[www.siemens.com/healthcare](http://www.siemens.com/healthcare)

#### AUTOMATION

<b>Contact:</b>	Pamela Curtin (914) 524-3824 Pamela.curtin@siemens.com
<b>Product:</b>	ADVIA LabCell/WorkCell™ Solution
<b>Methodologies Used:</b>	Configuration dependent
<b>Tests Available in the U.S.:</b>	Configuration dependent
<b>Throughput:</b>	Configuration dependent
<b>Time to First Result:</b>	Configuration dependent
<b>Sample Size:</b>	Configuration dependent
<b>Frequency of Calibration:</b>	Configuration dependent
<b>Other Utility Requirements:</b>	Deionized water; dedicated electrical line

<b>What differentiates your product from other products on the market?</b>	Customizable approach to total laboratory automation. Unique design allows automation to be implemented in stages. Multiple configuration options for chemistry, immunoassay, hematology, urinalysis and coagulation testing. Single workstation to review results and monitor instruments. One tube needed for all testing; no aliquotting. Each analyzer can function independently. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Configuration dependent
<b>Sample Handling System:</b>	Puck based
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Dependent on configuration
<b>Reagents Refrigerated Onboard?</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Configuration dependent
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Dependent on configuration
<b>Contact:</b>	Tim Keating (302) 631-9482 timothy.m.keating@siemens.com
<b>Product:</b>	VersaCell™ System
<b>What differentiates your product from other products on the market?</b>	Multiple instrument configurations with small footprint and flexible layouts. Processes multiple tube sizes simultaneously. Tube-centric sample management prioritizes testing by tube rather than by rack. No track is required for sample delivery. No scheduled maintenance. Connected analyzers are functionally independent.
<b>Product:</b>	StreamLAB® Analytical Workcell
<b>What differentiates your product from other products on the market?</b>	Simplifies sample management with an easy-to-use, single operator interface for all sample input, output and status monitoring. Routes individual stat and routine samples to the appropriate analyzer, optimizing throughput and turnaround time. Completed tubes can be sorted and mapped into output racks to enable easy storage, subsequent testing or retrieval. The Workcell is capable of running a wide range of sample tube sizes and types simultaneously without pre-sorting. Multi-tube carrier with RFID 2 chip for continuous, reliable sample tracking. Refrigerated storage and retrieval is also available.
<b>CHEMISTRY</b>	
<b>Contact:</b>	Colleen Grier (302) 631-8773 colleen.m.grier@siemens.com
<b>Product:</b>	Dimension Vista® 1500 and 3000T Intelligent Lab System
<b>Methodologies Used:</b>	LOCi® Advanced Chemiluminescence, photometry, nephelometry, EMIT® technology, heterogeneous immunoassay (ACMIA, PETINIA, PETIA), turbidimetric, V-LYTE® multisensor - potentiometry

<b>Tests Available in the U.S.:</b>	a1Acid Glycoprotein (Orosomucoid), a1Antitrypsin, a1Microglobulin, Acetaminophen, Alanine Transaminase, Albumin, Alkaline Phosphatase, Ammonia, Amylase, Antistreptolysin O, Apolipoprotein A1, Apolipoprotein B, Aspartate Transaminase, β2Microglobulin, Blood Urea Nitrogen, C Reactive Protein, C3 Complement, C4 Complement, Calcium, Carbamazepine, Carbon Dioxide, Ceruloplasmin, Chloride, Cholesterol, Creatine Kinase, Creatine Kinase MB Isoenzyme, Creatinine, Cyclosporine, Cyclosporine –extended, Cystatin C, Digitoxin, Digoxin, Direct Bilirubin, Ethyl Alcohol, Gamma Glutamyl Transaminase, Gentamicin, Glucose, Haptoglobin, Hemoglobin A1C, High Density Lipoprotein Cholesterol, High Sensitivity CRP (CardioPhase® hsCRP), Homocysteine, Immunoglobulin E, Immunoglobulin A, Immunoglobulin G, Immunoglobulin M, Iron, Lactate Dehydrogenase, Lactic Acid, Lidocaine, Lipase, Lithium, LOCI Beta Human Chorionic Gonalotropin, LOCIAlpha feto-protein, LOCI Carcinoembryonic Antigen, LOCI Cardiac Troponin I, LOCI Ferritin, LOCI Free Thyroxine, LOCI Free Triiodothyronine, LOCI Mass Creatine Kinase MB Isoenzyme, LOCI Myoglobin, LOCI N-terminal proBrain natriuretic peptide, LOCI Thyroid Stimulating Hormone, Low Density Lipoprotein Cholesterol, Magnesium, Microalbumin, N-acetyl Procainamide, Phenobarbital, Phenytoin, Phosphorus, Potassium, Prealbumin (Transthyretin), Procainamide, Pseudochoolinesterase, Rheumatoid Factor, Serum Barbiturates*, Serum Benzodiazepines*, Serum Salicylate, Serum Tricyclic Antidepressants*, Sodium, Soluble Transferrin Receptor, Theophylline, Thyronine Uptake, Thyroxine, Tobramycin, Total Bilirubin, Total Iron Binding Capacity, Total Protein, Transferrin, Triglyceride, Triiodothyronine, Uric Acid, Urinary/Cerebrospinal Fluid Protein, Urine Amphetamine, Urine Barbiturates, Urine Benzodiazepines, Urine Cocaine, Urine Ecstasy, Urine Methadone, Urine Methaqualone*, Urine Opiate, Urine Phencyclidine, Urine Propoxyphene* (*Sya®Emit® applications)
<b>Throughput:</b>	Up to 1,500 tests per hour for the Vista 1500 and up to 3,000 test per hour for the Vista 3000T System
<b>Sample Size:</b>	Method dependent (< 1-20 µL)
<b>Frequency of Calibration:</b>	30-90 days – method dependent. Automatic calibration for hands-off operation with method specific user-selected criteria with calibration materials stored onboard the system. Automatic monitoring of calibration frequency.
<b>Time to First Result:</b>	Varies by method: 22 seconds - 21 minutes
<b>Other Utility Requirements:</b>	Dedicated electrical line
<b>What differentiates your product from other products on the market?</b>	Ultra-integrated system with 4 detectors (including nephelometry and LOCI Advanced chemiluminescence) for concurrent processing of over 100 assays; continuous sample loading of routine and stat specimens without interruption. Onboard aliquot system for quick return of primary specimen and automatic onboard sample dilution/ rerun capability. Samples require no manual pretreatment and reagents require no manual preparation. Automatic Calibration & QC processing with onboard calibrators and QC in vials. Windows-based fully multitasking software with online reference for training, maintenance and troubleshooting; real-time system monitoring for predictive, proactive service. EasyLink® middleware system for result and QC management, including autoverification of patient results. Ability to “twin” systems (3000T) to optimize workflow and turnaround time. Ability to connect to StreamLab® automation system for pre-analytical sample processing.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Homogeneous (none), magnetic particle
<b>Sample Handling System:</b>	Six position sample rack allows for intermix of various tube types and cups. Onboard sample aliquot used to automate specimen dilutions and reruns. Priority loading for stat and whole blood samples with dual clot check and level sense.

<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Vista 1500 has 166 slots for reagents, calibrators and/or QC materials. Vista 3000T has double the capacity/20-1,200 tests per Reagent Flex® cartridge.
<b>Reagents Refrigerated Onboard?</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	200 sample tubes per hour with continuous loading/over 100 test methods/over 20,000 tests. Reagents can be loaded during operation.
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily 10-15 minutes, no weekly, monthly 10-20 minutes. Intelligent device management monitoring through RealTime Solutions <sup>SM</sup> for remote, proactive predictions of maintenance needs.
<b>Contact:</b>	Diane Bandy (302) 631-9435 diane.m.bandy@siemens.com
<b>Product:</b>	Dimension Vista® 500 and 1000T Intelligent Lab System
<b>Methodologies Used:</b>	LOCI® Advanced Chemiluminescence, photometry, nephelometry, EMIT® technology, heterogeneous immunoassay (ACMIA, PETINIA, PETIA), turbidimetric, V-LYTE® multisensor - potentiometry
<b>Tests Available in the U.S.:</b>	a1Acid Glycoprotein (Orosomucoid), a1Antitrypsin, a1Microglobulin, Acetaminophen, Alanine Transaminase, Albumin, Alkaline Phosphatase, Ammonia, Amylase, Antistreptolysin O, Apolipoprotein A1, Apolipoprotein B, Aspartate Transaminase, β2Microglobulin, Blood Urea Nitrogen, C Reactive Protein, C3 Complement, C4 Complement, Calcium, Carbamazepine, Carbon Dioxide, Ceruloplasmin, Chloride, Cholesterol, Creatine Kinase, Creatine Kinase MB Isoenzyme, Creatinine, Cyclosporine, Cyclosporine -extended, Cystatin C, Digitoxin, Digoxin, Direct Bilirubin, Ethyl Alcohol, Gamma Glutamyl Transaminase, Gentamicin, Glucose, Haptoglobin, Hemoglobin A1C, High Density Lipoprotein Cholesterol, High Sensitivity CRP (CardioPhase® hsCRP), Homocysteine, Immunoglobulin E, Immunoglobulin A, Immunoglobulin G, Immunoglobulin M, Iron, Lactate Dehydrogenase, Lactic Acid, Lidocaine, Lipase, Lithium, LOCI Beta Human Chorionic Gondotropin, LOCI Alpha feto-protein, LOCI Carcinoembryonic Antigen, LOCI Cardiac Troponin I, LOCI Ferritin, LOCI Free Thyroxine, LOCI Free Triiodothyronine, LOCI Mass Creatine Kinase MB Isoenzyme, LOCI Myoglobin, LOCI N-terminal proBrain natriuretic peptide, LOCI Thyroid Stimulating Hormone, Low Density Lipoprotein Cholesterol, Magnesium, Microalbumin, N-acetyl Procainamide, Phenobarbital, Phenytoin, Phosphorus, Potassium, Prealbumin (Transthyretin), Procainamide, Pseudocholinesterase, Rheumatoid Factor, Serum Barbiturates*, Serum Benzodiazepines*, Serum Salicylate, Serum Tricyclic Antidepressants*, Sodium, Soluble Transferrin Receptor, Theophylline, Thyronine Uptake, *Syva® Emit® applications Thyroxine, Tobramycin, Total Bilirubin, Total Iron Binding Capacity, Total Protein, Transferrin, Triglyceride, Triiodothyronine, Uric Acid, Urinary/Cerebrospinal Fluid Protein, Urine Amphetamine, Urine Barbiturates, Urine Benzodiazepines, Urine Cocaine, Urine Ecstasy, Urine Methadone, Urine Methaqualone*, Urine Opiate, Urine Phencyclidine, Urine Propoxyphene*
<b>Throughput:</b>	Up to 1,000 tests per hour for the Vista 500 and up to 2,000 test per hour for the Vista 1000T System
<b>Time to First Result:</b>	Varies by method: 22 seconds - 21 minutes
<b>Sample Size:</b>	Method dependent (< 1-20 µL)

<b>Frequency of Calibration:</b>	30-90 days – method dependent. Automatic calibration for hands-off operation with method specific user-selected criteria with calibration materials stored onboard the system. Automatic monitoring of calibration frequency.
<b>Other Utility Requirements:</b>	Dedicated electrical line
<b>What differentiates your product from other products on the market?</b>	Ultra-integrated system with 4 detectors (including nephelometry and LOCI Advanced chemiluminescence) for concurrent processing of over 100 assays; continuous sample loading of routine and stat specimens without interruption. Onboard aliquot system for quick return of primary specimen and automatic onboard sample dilution/ rerun capability. Samples require no manual pretreatment and reagents require no manual preparation. Automatic Calibration & QC processing with onboard calibrators and QC in vials. Windows-based fully multitasking software with online reference for training, maintenance and troubleshooting; and real-time system monitoring for predictive, proactive service. EasyLink® middleware system for result and QC management, including autoverification of patient results. Ability to “twin” systems (1000T) to optimize workflow and turnaround time.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Homogeneous (none), magnetic particle
<b>Sample Handling System:</b>	Six position sample rack allows for intermix of various tube types and cups. Onboard sample aliquot used to automate specimen dilutions and reruns. Priority loading for stat and whole blood samples with dual clot check and level sense.
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Vista 500 has 144 slots for reagents, calibrators and/or QC materials. Vista 1000T has double the capacity. 20-1,200 tests per Reagent Flex® cartridge.
<b>Reagents Refrigerated Onboard?</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	200 sample tubes per hour with continuous loading/over 100 test methods/over 20,000 tests. Reagents can be loaded during operation.
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily 10-15 minutes; monthly 10-20 minutes. Intelligent device management monitoring through RealTime Solutions <sup>SM</sup> for remote, proactive predictions of maintenance needs.
<b>Contact:</b>	Pamela Curtin (914) 524-3824 pamela.curtin@siemens.com
<b>Product:</b>	ADVIA® 1200 Chemistry System
<b>Methodologies Used:</b>	Endpoint, rate reaction, 2-point rate, multi-point homogeneous immunoassay
<b>Tests Available in the U.S.:</b>	Acid Phosphatase, Alanine, Aminotransferase, Albumin, Alkaline Phosphatase (AMP), Alkaline Phosphatase (DEA), Amylase, Aspartate, Aminotransferase, Aspartate, Aminotransferase (P5P), Bilirubin, Direct Bilirubin, Total Calcium (Arsenazo), Calcium (CPC), Carbon Dioxide, Chloride (ISE), Cholesterol, Creatine Kinase, Creatinine (Jaffe), Creatinine (Enzymatic), Direct HDL, Cholesterol Direct LDL, Cholesterol Gamma-Glutamyltransferase (GGT), Glucose Hexokinase, Glucose Oxidase, Inorganic Phosphorous, Iron Lactate, Lactate Dehydrogenase (L-P), Lactate Dehydrogenase (P-L), Lipase Magnesium Potassium (ISE), Sodium (ISE), Total Protein Total Protein - Urine/CSF, Triglycerides, Urea Nitrogen, Uric Acid,

<b>Continued... Tests Available in the U.S.:</b>	Alpha-1 Antitrypsin, Anti-Streptolysin O, Apolipoprotein A1, Apolipoprotein B, Complement 3 (C3), Complement 4 (C4), C-Reactive Protein (CRP), Wide Range C-Reactive Protein (wr-CRP), Cardiophase® hsCRP Cystatin C, Haptoglobin, Immunoglobulin A (IgA), Immunoglobulin G (IgG), Immunoglobulin M (IgM), Rheumatoid Factor (RF), Transferrin, Acetaminophen, Amphetamines, Barbiturates (Urine), Barbiturates (Serum), Benzodiazepines (Urine), Benzodiazepines (Serum), Cannabinoids (THC), Cocaine, Metabolite, Ethanol, Methadone, Methadone Metabolites, Opiates, Phencyclidine, Propoxyphene, Salicylate, Tricyclic, Antidepressants, Ammonia, Cholinesterase, Manual Pretreatment Hemoglobin A1c (HbA1c), Automated Pretreatment Hemoglobin A1c (A1c), Microalbumin, Pancreatic Amylase, Prealbumin, Total Iron Binding Capacity, Carbamazepine, Digoxin, Gentamicin, Lithium, Phenobarbital, Phenytoin, Theophylline, Tobramycin, Valproic Acid, Vancomycin
<b>Throughput:</b>	Up to 1,200 tests per hour
<b>Time to First Result:</b>	10 minutes
<b>Sample Size:</b>	1-25 µL; assay dependent
<b>Frequency of Calibration:</b>	Average 14 days
<b>Other Utility Requirements:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	Small footprint; automatic dilution and repeat testing; liquid level sensing; short sample detection; clot detection; robust hardware and simplified software. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution. Concentrated reagents provide as many as 3,060 tests in a compact 40 or 70 mL container for maximum productivity.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Latex agglutination/centrifugation
<b>Sample Handling System:</b>	Carousel; 84 samples, continuous loading
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	44 tests onboard; tests per kit varies by assay
<b>Reagents Refrigerated Onboard?</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Auto-dilution, auto-repeat testing, reflex testing available
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	5 minutes
<b>Product:</b>	ADVIA® 1800 Chemistry System
<b>Methodologies Used:</b>	End-point, rate reaction, 2-point rate, multipoint homogeneous immunoassay
<b>Tests Available in the U.S.:</b>	Acid Phosphatase, Alanine, Aminotransferase, Alanine Aminotransferase (P5P), Albumin, Alkaline Phosphatase (AMP), Alkaline Phosphatase (DEA), Amylase, Aspartate Aminotransferase, Aspartate Aminotransferase (P5P), Bilirubin, Direct Bilirubin, Total Calcium (Arsenazo), Calcium (CPC), Carbon Dioxide, Chloride (ISE), Cholesterol, Creatine Kinase, Creatinine (Jaffe), Creatinine (Enzymatic),

<b>Continued... Tests Available in the U.S.:</b>	Direct HDL Cholesterol, Direct LDL Cholesterol, Gamma-Glutamyltransferase (GGT), Glucose, Hexokinase Glucose, Oxidase, Inorganic Phosphorous, Lactate, Iron Lactate, Dehydrogenase (L-P), Lactate Dehydrogenase (P-L), Lipase, Magnesium, Potassium (ISE), Sodium (ISE), Total Protein, Total Protein - Urine/CSF, Triglycerides, Urea, Nitrogen, Uric Acid, Alpha-1 Antitrypsin, Anti-Streptolysin O, Apolipoprotein A1, Apolipoprotein B, Complement 3 (C3), Complement 4 (C4), C-Reactive Protein (CRP), Wide Range C-Reactive Protein (wr-CRP), Cardiophase® hsCRP, Cystatin C, Haptoglobin, Immunoglobulin A (IgA), Immunoglobulin G (IgG), Immunoglobulin M (IgM), Rheumatoid Factor (RF), Transferrin, Acetaminophen, Amphetamines, Barbiturates (Urine), Barbiturates (Serum), Benzodiazepines (Urine), Benzodiazepines (Serum), Cannabinoids (THC), Cocaine, Metabolite, Ethanol, Methadone, Methadone Metabolites, Opiates, Phencyclidine, Propoxyphene, Salicylate, Tricyclic, Antidepressants, Ammonia, Cholinesterase, Manual Pretreatment Hemoglobin A1c (HbA1c) Automated Pretreatment Hemoglobin A1c (A1c), Microalbumin, Pancreatic Amylase, Prealbumin, Total Iron Binding Capacity, Carbamazepine, Digoxin, Gentamicin, Lithium, Phenobarbital, Phenytoin, Theophylline, Tobramycin, Valproic Acid, Vancomycin
<b>Throughput:</b>	Up to 1,800 tests per hour
<b>Time to First Result:</b>	10 minutes
<b>Sample Size:</b>	2-30 uL per test; assay dependent
<b>Frequency of Calibration:</b>	Up to 60 days
<b>Other Utility Requirements:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	200 Basic Metabolic Panels per hour. Automatic Sample Retain technology provides ability to perform reruns and dilutions without need to retrieve primary tube. Comprehensive menu. Consistent cycle times. Point-in-space aspiration offers connectivity to automation track or rack handler without robotics or special hardware. Redundant sample loading for built-in backup and easy handling of non-routine samples. Direct sampling from track prevents detaining tubes at analyzer and reduces aliquoting. Robust hardware and simplified software design, with automatic calibration validation and tracking. Unique no-maintenance oil bath. Sample integrity checking, including serum indices, short sample and clot detection, reduces manual intervention. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution. Concentrated reagents provide as many as 3,060 tests in a compact 40 or 70 mL container for maximum productivity.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Latex agglutination/centrifugation
<b>Sample Handling System:</b>	Universal rack handler with up to 2,400 samples/track automation with unlimited samples
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	55 tests onboard (including ISEs); test per kit varies by assay
<b>Reagents Refrigerated Onboard?</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Automatic sample retain technology, auto-dilution, auto-reflex testing, auto-repeat testing
<b>System Liquid or Dry:</b>	Liquid

<b>Average Length of System Startup Time and Daily Maintenance:</b>	5 minutes
<b>Product:</b>	ADVIA® 2400 Chemistry System
<b>Methodologies Used:</b>	Endpoint, rate reaction, 2-point rate, multi-point homogeneous immunoassay
<b>Tests Available in the U.S.:</b>	Acid Phosphatase Alanine Aminotransferase Alanine Aminotransferase (P5P) Albumin Alkaline Phosphatase (AMP) Alkaline Phosphatase (DEA) Amylase Aspartate Aminotransferase Aspartate Aminotransferase (P5P) Bilirubin, Direct Bilirubin, Total Calcium (Arsenazo) Calcium (CPC) Carbon Dioxide Chloride (ISE) Cholesterol Creatine Kinase Creatinine (Jaffe) Creatinine (Enzymatic) Direct HDL Cholesterol Direct LDL Cholesterol Gamma-Glutamyltransferase (GGT) Glucose Hexokinase Glucose Oxidase Inorganic Phosphorous Iron Lactate Lactate Dehydrogenase (L-P) Lactate Dehydrogenase (P-L) Lipase Magnesium Potassium (ISE) Sodium (ISE) Total Protein Total Protein - Urine/CSF Triglycerides Urea Nitrogen Uric Acid Alpha-1 Antitrypsin Anti-Streptolysin O Apolipoprotein A1 Apolipoprotein B Complement 3 (C3) Complement 4 (C4) C-Reactive Protein (CRP) Wide Range C-Reactive Protein (wr-CRP) Cardiophase® hsCRP Cystatin C Haptoglobin Immunoglobulin A (IgA) Immunoglobulin G (IgG) Immunoglobulin M (IgM) Rheumatoid Factor (RF) Transferrin Acetaminophen Amphetamines Barbiturates (Urine) Barbiturates (Serum) Benzodiazepines (Urine) Benzodiazepines (Serum) Cannabinoids (THC) Cocaine Metabolite Ethanol Methadone Methadone Metabolites Opiates Phencyclidine Propoxyphene Salicylate Tricyclic Antidepressants Ammonia Cholinesterase Manual Pretreatment Hemoglobin A1c (HbA1c) Automated Pretreatment Hemoglobin A1c (A1c) Microalbumin Pancreatic Amylase Prealbumin Total Iron Binding Capacity Carbamazepine Digoxin Gentamicin Lithium Phenobarbital Phenytoin Theophylline Tobramycin Valproic Acid Vancomycin
<b>Throughput:</b>	Up to 2,400 tests per hour
<b>Time to First Result:</b>	10 minutes
<b>Sample Size:</b>	2-30 µL; assay dependent
<b>Frequency of Calibration:</b>	Up to 60 days
<b>Other Utility Requirements:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	A rapid 2-second probe cycle time maximizes tube speed and test throughput. Automatic Sample Retain technology, auto-repeat, auto-dilution and auto-reflex testing. Point-in-space aspiration offers connectivity to track or rack handler without robotics or special hardware. Redundant sample loading for built-in backup and easy handling of non-routine samples. Direct sampling from track prevents detaining tubes at analyzer and reduces aliquoting. Sample integrity check for icterus, hemolysis and lipemia. Sample probe with automatic clot/clog detection, liquid level sensing, short sample detection and crash protection. Advances in reagent onboard stability, calibration frequency, interference reduction and linearity expansion. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution. Concentrated reagents provide as many as 3,060 tests in a compact 40 or 70 mL container.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Latex agglutination/centrifugation
<b>Sample Handling System:</b>	Universal 5-position rack, 425 total onboard capacity, continuous feed capability

<b>Number of Reagent Containers Onboard/Tests/Container:</b>	49 tests onboard (including ISEs); tests per kit varies by assay
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Automatic sample retain technology, auto-dilution, auto-reflex testing, auto-repeat testing
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	5 minutes
<b>Contact:</b>	Diane Bandy (302) 631-9435 diane.m.bandy@siemens.com
<b>Product:</b>	Dimension® Xpand® Plus Integrated Chemistry Analyzer
<b>Methodologies Used:</b>	Photometry, potentiometry, ACMA, EMIT®, PETINIA
<b>Tests Available in the U.S.:</b>	Calcium, Creatinine, Direct Bilirubin, Enzymatic Carbonate, Enzymatic Creatinine, Iron, Magnesium, Phosphorus, Total Bilirubin, Total Iron-Binding Capacity, IBCT (No Pre-Treat), Total Protein, Urea Nitrogen, Uric Acid, Carbon Dioxide, Chloride, Potassium, Sodium, Acid Phosphatase, Alanine Aminotransferase, Alkaline Phosphatase, Amylase, Aspartate, Aminotransferase, Creatine Kinase, Creatine Kinase MB, Isoenzyme, Glutamyl Transferase, Lactic Dehydrogenase, Lipase, Pseudocholinesterase, Hemoglobin A1c, Glucose (Liquid), Microalbumin, Cardiac Troponin I, Mass CK-MB, Myoglobin, NT-proBNP, CardioPhase® hsCRP, Cholesterol, Automated HDL, Cholesterol, Automated LDL, Cholesterol, Triglycerides, Thyroid Stimulating Hormone. Thyronine Uptake. Total Thyroxine/Total T4, Free Thyroxine/Free T4, Triiodothyronine, Urine Amphetamine Screen, Urine Barbiturates Screen, Urine Benzodiazepines Screen, Urine Cannabinoids Screen, Urine Cocaine Metabolite Screen, Urine Ecstasy, Urine Methadone Screen, Urine Opiates Screen, Urine Propoxyphene Screen, Ethyl Alcohol, Salicylate, Serum Barbiturates, Serum Benzodiazepines, Serum Tricyclic Antidepressants, Urine Methaqualone Screen, Gentamicin, Tobramycin, Vancomycin, Digoxin, Digitoxin, N-Acetylprocainamide, Lidocaine, Procainamide, Carbamazepine, Cyclosporine, Cyclosporine Extended Range, Lithium, Phenobarbital, Phenytoin, Tacrolimus, Theophylline, Valproic Acid, Complement C3, Complement C4, C-Reactive Protein, IgA, IgG, IgM, Transferrin, Ammonia, Urine/Cerebrospinal Fluid Protein, Lactic Acid, Prealbumin, HCG Hormone, Ferritin, Total PSA, Free PSA
<b>Throughput:</b>	437 photometric and potentiometric tests per hour, 167 heterogeneous IA tests per hour
<b>Time to First Result:</b>	60 seconds – 21 minutes
<b>Sample Size:</b>	5, 7 and 10 mL primary tubes and small sample cups
<b>Frequency of Calibration (daily, weekly, monthly, or other):</b>	30-90 days
<b>What differentiates your product from other products on the market?</b>	Low-volume workstation that integrates immunoassays onboard with other chemistries, utilizes a single reagent format to meet over 95 percent of testing needs. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution. Low-volume reagent configuration option available for Troponin I, NT-proBNP and HCG assays. Integration of Lean design concepts with no specimen pre-treatment or

<b>Continued... What differentiates your product from other products on the market?</b>	reagent preparation by the operator, no sample splitting or aliquotting, automated calibration and control processes, and fully automated ISD assays onboard.
<b>Other utility requirement:</b>	Deionized water NCCLS Type 2
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Heterogeneous-magnetic particle
<b>Sample Handling System:</b>	Segmented sample wheel with rack system
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	47/15-360
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	60 / 6,000
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	No routine startup, 10 minutes daily maintenance with 5 minutes hands-on time
<b>Contact:</b>	Terry Thompson (302) 631-6874 terry.tt.thompson@siemens.com
<b>Product:</b>	Dimension® RxL Max® Integrated Chemistry Analyzer
<b>Methodologies Used:</b>	Photometry, potentiometry, ACMA, EMIT®, PETINIA
<b>Tests Available in the U.S.:</b>	Calcium, creatinine, direct bilirubin, enzymatic carbonate, enzymatic creatinine, iron, magnesium, phosphorus, total bilirubin, total iron-binding capacity, IBCT (no pre-treat) total protein, urea nitrogen, uric acid, carbon dioxide, chloride, potassium, sodium, acid phosphatase, alanine aminotransferase, alkaline phosphatase, amylase, aspartate, aminotransferase, creatine kinase, creatine kinase MB, isoenzyme, glutaryl transferase, lactic dehydrogenase, lipase, pseudocholinesterase, hemoglobin A1c, glucose (liquid), microalbumin, cardiac troponin I, mass CK-MB, myoglobin, NT-proBNP, CardioPhase® hsCRP, cholesterol, automated HDL, cholesterol, automated LDL, cholesterol, triglycerides, thyroid stimulating hormone, thyronine uptake, total thyroxine/total T4, free thyroxine/free T4, triiodothyronine, serum barbiturates, serum benzodiazepines, serum tricyclic antidepressants, urine amphetamine screen, urine barbiturates screen, urine benzodiazepines screen, urine cannabinoids screen, urine cocaine metabolite screen, urine ecstasy, urine methadone screen, urine methaqualone screen, urine opiates screen, urine propoxyphene screen, ethyl alcohol, salicylate, serum barbiturates, serum benzodiazepines, serum tricyclic antidepressants, urine methaqualone screen, gentamicin, tobramycin, vancomycin, digoxin, digitoxin, N-acetylprocainamide, lidocaine, procainamide, carbamazepine, cyclosporine, cyclosporine extended range, lithium, phenobarbital, phenytoin, tacrolimus, theophylline, valproic acid, complement C3, complement C4, C-reactive protein, IgA, IgG, IgM, transferrin, ammonia, urine/cerebrospinal fluid protein, lactic acid, prealbumin, HCG hormone, ferritin, total PSA, free PSA

<b>Throughput:</b>	800 tests/hour photometric and potentiometric, 167 heterogeneous immunoassay tests/hr
<b>Time to First Result:</b>	36 seconds – 21 minutes
<b>Sample Size:</b>	5, 7 and 10 mL primary tubes, small sample cups
<b>Frequency of Calibration:</b>	30-90 days
<b>What differentiates your product from other products on the market?</b>	Integrates heterogeneous immunoassays onboard with other chemistries; allows single platform for over 95 percent of most requested tests; eliminates sample splitting between general tests and immunoassays; fully automated onboard ISD assays. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution; integration of Lean design concepts with no specimen pre-treatment or reagent preparation by the operator.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	EIA, latex particle turbidimetric, direct turbidimetric/heterogeneous-magnetic particle, homogenous (none)
<b>Sample Handling System:</b>	Segmented sample wheel with rack system
<b>Number of Reagent Containers On board/Tests/ Container:</b>	88 with optional reagent management system/maximum 360
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Test Assays:</b>	60 specimens / 6,000 tests
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	No routine startup, 10 minutes daily maintenance with 5 minutes hands-on time
<b>COAGULATION</b>	
<b>Contact:</b>	Jackie Hauser (847) 267-5383 jacqueline.k.hauser@siemens.com
<b>Product:</b>	BFT™ II Coagulation Analyzer
<b>Methodologies Used:</b>	Turbido-densitometric system for clotting assays
<b>Tests Available in the U.S.:</b>	PT, APTT, Fibrinogen
<b>Throughput:</b>	N/A, manual system
<b>Time to First Result:</b>	Assay dependent
<b>Sample Size:</b>	50 µL
<b>Frequency of Calibration:</b>	Assay dependent. CLIA guidelines recommend calibration at least once every six months. More frequent calibration may be required if QC is outside of the acceptable range or as dictated by local regulations.
<b>What differentiates your product from other products on the market?</b>	Unique turbo-densitometric detector tests lipemic and icterica samples accurately, built-in printer and INR printouts for ease of use. Open reagent system.
<b>Operational Type:</b>	Manual
<b>Sample Handling System:</b>	Manual

<b>Number of Reagent Containers Onboard/Tests/Containers:</b>	4 containers/tests vary
<b>Reagents Refrigerated Onboard:</b>	No
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily maintenance 1 minute
<hr/>	
<b>Product:</b>	Sysmex® CA-530 Coagulation Analyzer
<b>Methodologies Used:</b>	Optical based system. Clotting and chromogenic methodologies used.
<b>Tests Available in the U.S.:</b>	PT, APTT, Fibrinogen, TT, Factor Assays, Reptilase time, Protein C clot, AT III, Protein C chromo, Heparin
<b>Throughput:</b>	54 PT tests/hour, 43 PT/APTT tests/hour
<b>Time to First Result:</b>	7 minutes
<b>Sample Size:</b>	50 µL PT
<b>Frequency of Calibration:</b>	Assay dependent. CLIA guidelines recommend calibration at least once every six months. More frequent calibration may be required if QC is outside of the acceptable range or as dictated by local regulations.
<b>Other Utility Requirement:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	Smallest footprint in class, low operating expense, 5-parameter true random access with clotting/chromogenic capabilities; integrated data management, open reagent system, primary tube sampling, onboard dilution
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/Containers:</b>	11 containers/tests vary
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	10 specimens/assays vary
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily maintenance < 5 minutes
<hr/>	
<b>Product:</b>	Sysmex® CA-560 Coagulation Analyzer
<b>Methodologies Used:</b>	Optical based system. Clotting, chromogenic and immunologic methodologies used.
<b>Tests Available in the U.S.:</b>	PT, APTT, Fibrinogen, TT, Factor Assays, Reptilase time, Protein C clot, AT III, Protein C chromo, Heparin, D-Dimer

<b>Throughput:</b>	54 PT tests/hour, 43 PT/APTT tests/hour
<b>Time to First Result:</b>	7 minutes
<b>Sample Size:</b>	50 µL
<b>Frequency of Calibration:</b>	Assay dependent. CLIA guidelines recommend calibration at least once every six months. More frequent calibration may be required if QC is outside of the acceptable range or as dictated by local regulations.
<b>Other Utility Requirement:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	Smallest footprint in its class; onboard quality control package; primary tube sampling and removeable reagent trays; integrated data management; open reagent system, positive sample ID; onboard dilution
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/Containers:</b>	11 containers/tests vary
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	10 specimens/assays vary
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily maintenance < 5 mins
<hr/>	
<b>Product:</b>	Sysmex® CA-1500 Coagulation Analyzer
<b>Methodologies Used:</b>	Optical based system. Clotting, chromogenic and immunologic methodologies used.
<b>Tests Available in the U.S.:</b>	PT, APTT, Fibrinogen, TT, Reptilase time, Factor Assays, drVvt screen and confirm, Factor V Leiden, Protein C clot, Protein S activity, AT III, Plasminogen, Factor VIII chromo, Alpha-2 Antiplasmin, Protein C chromo, Heparin, D-dimer
<b>Throughput:</b>	120 PT tests/hour, 80 PT/APTT tests/hour
<b>Time to First Result:</b>	7 minutes
<b>Sample Size:</b>	50 µL
<b>Frequency of Calibration:</b>	Assay dependent. CLIA guidelines recommend calibration at least once every six months. More frequent calibration may be required if QC is outside of the acceptable range or as dictated by local regulations.
<b>Other Utility Requirement:</b>	Deionized water, container or direct plumbed option
<b>What differentiates your product from other products on the market?</b>	Simultaneous curve calibration and patient testing; robust 2nd generation cap-piecing; ability to load multiple bottles or multiple lots of reagent; integrated data management; open reagent system; primary tube sampling with cap piercing optional; positive sample ID; onboard dilution
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Rack

<b>Number of Reagent Containers Onboard/Tests/Containers:</b>	39 containers/tests vary
<b>Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	50 specimens/assays vary
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily maintenance < 5 minutes
<b>Product:</b> Sysmex® CA-7000 Coagulation Analyzer	
<b>Methodologies Used:</b>	Optical based system. Clotting, chromogenic and immunologic methodologies used.
<b>Tests Available in the U.S.:</b>	PT, APTT, Fibrinogen, TT, Reptilase time, Factor Assays, drVvt screen and confirm, Factor V Leiden, Protein C clot, Protein S activity, AT III, Plasminogen, Factor VIII chromo, Alpha-2 Antiplasmin, Protein C chromo, Heparin, D-dimer
<b>Throughput:</b>	280 PT tests/hour, 480 PT/APTT tests/hour
<b>Time to First Result:</b>	7 minutes
<b>Sample Size:</b>	50 µL
<b>Frequency of Calibration:</b>	Assay dependent. CLIA guidelines recommend calibration at least once every six months. More frequent calibration may be required if QC is outside of the acceptable range or as dictated by local regulations.
<b>Other Utility Requirement:</b>	Deionized water, container or direct plumbed option
<b>What differentiates your product from other products on the market?</b>	Fastest throughput available for routine testing; robust 2nd generation cap-piecing; PT, APTT results every 7 seconds; continuous loading of reagents, consumables and patient samples without interruption; integrated data management; open reagent system; primary tube sampling with cap piercing standard; positive sample ID; onboard dilution
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/Container:</b>	58 containers/tests vary
<b>Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	100 specimens/assays vary
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily maintenance < 5 minutes
<b>Product:</b> BCS® XP System	

<b>Methodologies Used:</b>	Optical based system. Clotting, chromogenic and immunologic methodologies used.
<b>Tests Available in the U.S.:</b>	PT, APTT, Fibrinogen, TT, Reptilase time, Factor Assays, drVvt screen and confirm, Factor V Leiden, Protein C clot, Protein S activity, AT III, Plasminogen, Factor VIII chromo, Alpha-2 Antiplasmin, Protein C chromo, Heparin, D-dimer, BC von Willebrand-risto. Cofactor assay
<b>Throughput:</b>	380 PT tests/hour, 325 PT/APTT tests/hour
<b>Time to First Result:</b>	< 5 minutes
<b>Sample Size:</b>	50 µL
<b>Frequency of Calibration:</b>	Assay dependent. CLIA guidelines recommend calibration at least once every six months. More frequent calibration may be required if QC is outside of the acceptable range or as dictated by local regulations.
<b>Other Utility Requirement:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	User-definable calibration curve expiration and pre-warning alerts; user-definable barcode utility enables customizable reagent protocols; user-friendly Windows XP software; integrated data management; open reagent system; primary tube sampling; positive sample ID; onboard dilution
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/Containers:</b>	90 containers/tests vary
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	100 specimens/assays vary
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Daily maintenance < 5 minutes
<b>IMMUNOASSAY</b>	
<b>Contact:</b>	Martu Richards (914) 631-8000
<b>Product:</b>	IMMULITE® 1000 Immunoassay System
<b>Methodologies Used:</b>	Enzyme enhanced chemiluminescence
<b>Tests Available in the U.S.:</b>	ACTH, AFP, Androstenedione, Anti-HBc IgM, Anti-HBc Total, Anti-HBs, Anti-TG Ab, Anti-TPO Ab, Beta-2 Microglobulin, BR-MA (CA 15-3), Calcitonin, Canine TLI, Canine Total T4, Canine TSH, Carbamazepine, CEA, CKMB, Cortisol, C-Peptide, DHEA-SO4, Digoxin, EPO, Estradiol, Ferritin, Folic Acid, Free PSA, Free T3, Free T4, FSH, Gastrin, Growth Hormone (hGH), H. pylori IgG, HBs Ag, HBs Ag confirmatory, HCG, Herpes I & II IgG, High Sensitivity CRP, Homocysteine, IGFBP-3, IGF-I, Insulin, Intact PTH, LH, Microalbumin (urine) (ALB), Myoglobin, OM-MA (CA 125), PAP, Phenobarbital, Phenytoin, Progesterone, Prolactin, PSA, PYRILINKS-D, Rapid TSH, RBC Folate, Rubella IgM, Rubella Quantitative IgG, SHBG, TBG, Theophylline, Third Generation PSA, Third Generation TSH, Thyroglobulin, Thyroid Uptake, Total IgE, Total T3, Total T4, Total Testosterone, Toxoplasma Quant. IgG, Troponin I, Turbo CKMB, Turbo HCG, Turbo Intact PTH, Turbo Myoglobin, Turbo Troponin I, Unconjugated Estradiol, Valproic Acid, Vitamin B12

<b>Continued... Tests Available in the U.S.:</b>	*Under Development, not available for sale: CMV IgG, CMV IgM*, D-Dimer*, HBsAb Quantitative*, Procalcitonin*, Toxo IgM II*
<b>Throughput:</b>	Up to 120 tests/hour
<b>Time to First Result:</b>	15 (Turbo assays); 42-65 minutes (assay dependent)
<b>Sample Size:</b>	Assay dependent
<b>Frequency of Calibration:</b>	Assay dependent, mostly 2-4 weeks
<b>Other Utility Requirement:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	Routine, esoteric and allergy testing. Samples can be continuously processed for improved turnaround times. Stat samples easily added. Remote Diagnostics provides customers with enhanced support and troubleshooting assistance that can reduce downtime. Offers integrated data management and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Bead/centrifugation
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	12 reagents onboard; tests per container varies with assay
<b>Reagents Refrigerated Onboard?</b>	No; cooled area.
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Up to 100 tests
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	5 minutes startup, daily maintenance ~15 minutes
<b>Product:</b>	IMMULITE® 2000 Immunoassay System
<b>Methodologies Used:</b>	Enzyme-enhanced chemiluminescence
<b>Tests Available in the U.S.:</b>	3gAllergy™ Specific IgE, ACTH, AFP, Androstenedione, Anti-HBc IgM, Anti-HBc Total, Anti-HBs, Anti-TG Ab, Anti-TPO Ab, Beta-2 Microglobulin, BR-MA (CA 15-3), Calcitonin, Canine TLI, Canine Total T4, Canine TSH, Carbamazepine, CEA, CKMB, Cortisol, C-Peptide, DHEA-SO4, Digitoxin, Digoxin, EPO, Estradiol, Ferritin, Folic Acid, Free PSA, Free T3, Free T4, FSH, Gastrin, Growth Hormone (hGH), H. pylori IgG, HBs Ag, HBs Ag confirmatory, HCG, Herpes I & II IgG, High Sensitivity CRP, Homocysteine, IGFBP-3, IGF-I, Insulin, Intact PTH, LH, Microalbumin (urine) (ALB), Myoglobin, OM-MA (CA 125), PAP, Phenobarbital, Phenytoin, Progesterone, Prolactin, PSA, PYRILINKS-D, Rapid TSH, RBC Folate, Rubella IgM, Rubella , Quantitative IgG, SHBG, TBG, Theophylline, Third Generation PSA, Third Generation TSH, Thyroglobulin, Thyroid Uptake, Total IgE, Total T3, Total T4, Total Testosterone, Toxoplasma IgM, Toxoplasma Quant. IgG, Troponin I, Unconjugated Estriol, Valproic Acid, Vitamin B12. * Under Development, not available for sale: CMV IgM*, EBV-EBNA IgG*, EBV-VCA IgG*, EBV-VCA IgM*, D-dimer*, HBsAb Quantitative*, Procalcitonin*, Syphilis*
<b>Throughput:</b>	Up to 200 tests/hour
<b>Time to First Result:</b>	35 minutes (assay dependent)

<b>Sample Size:</b>	Assay dependent
<b>Frequency of Calibration:</b>	1-4 weeks, assay dependent
<b>Other Utility Requirement:</b>	Deionized water, dedicated electric line
<b>What differentiates your product from other products on the market?</b>	Routine, esoteric and allergy testing; proprietary wash technique for high-sensitivity third-generation assays; no detectable carryover; proactive technical support through RealTime Solutions; integrated data management, primary tube sampling, positive sample ID, proprietary onboard dilution and up to 5 hours of usable walkaway time.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Bead/centrifugation
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	24 reagents onboard; 200 tests per kit
<b>Reagents Refrigerated Onboard?</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	1,000 tests
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	4 minutes startup; daily maintenance 15 minutes
<b>Product:</b>	IMMULITE® 2500 Immunoassay System
<b>Methodologies Used:</b>	Enzyme-enhanced chemiluminescence
<b>Tests Available in the U.S.:</b>	3gAllergy™ Specific IgE, ACTH, AFP, Androstenedione, Anti-TG Ab, Anti-TPO Ab, Beta-2 Microglobulin, BR-MA (CA15-3), Calcitonin, Carbamazepine, CEA, CKMB, CMV IgG, Cortisol, C-Peptide, DHEA-SO4, Digoxin, EPO, Estradiol, Ferritin, Folic Acid, Free T3, Free T4, FSH, Gastrin, Growth Hormone (hGH), H. pylori IgG, HCG, Herpes I & II IgG, High Sensitivity CRP, Homocysteine, IGFBP-3, IGF-I, Insulin, Intact PTH, LH, Microalbumin (urine) (ALB), Myoglobin, OM-MA (CA125), Phenobarbital, Phenytoin, Progesterone, Prolactin, PSA, PYRILINKS-D, Rapid TSH, RBC Folate, Rubella IgM, Rubella Quantitative IgG, SHBG, TBG, Theophylline, Third Generation PSA, Third Generation TSH, Thyroglobulin, Thyroid Uptake, Total IgE, Total T3, Total T4, Total Testosterone, Toxoplasma IgM, Toxoplasma Quant. IgG, Troponin I, Turbo CKMB, Turbo Intact PTH, Turbo Myoglobin, Turbo Troponin I, Unconjugated Estriol, Valproic Acid, Vitamin B12. * Under Development, not available for sale: CMV IgM*, D-Dimer*, EBV-EBNA IgG*, EBV-VCA IgG*, EBV-VCA IgM*, Syphilis*
<b>Throughput:</b>	Up to 200 tests/hour
<b>Time to First Result:</b>	15 minutes (stat assays); 35-65 minutes (routine, assay dependent)
<b>Sample Size:</b>	5 uL
<b>Frequency of Calibration:</b>	1-4 weeks, assay dependent
<b>Other Utility Requirement:</b>	Deionized water, dedicated electrical line

<b>What differentiates your product from other products on the market?</b>	Routine, esoteric and allergy testing; proprietary wash technique for high-sensitivity third-generation assays; no detectable carryover; technical support through RealTime Solutions; stat testing; integrated data management; primary tube sampling; positive sample ID; proprietary onboard dilution; up to 5 hours of usable walkaway time.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Bead/centrifugation
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	24 reagents onboard; 200 tests per kit
<b>Reagents Refrigerated Onboard?</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	1,000 test walkaway capacity; 5 hours of usable walkaway time
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	4 minutes daily startup; daily maintenance ~15 minutes
<b>Contact:</b> Louise Chang (310) 645-8200 x7035 louise.chang@siemens.com	
<b>Product:</b>	ADVIA® Centaur CP Immunoassay System
<b>Methodologies Used:</b>	Chemiluminescence
<b>Tests Available in the U.S.:</b>	Cortisol (Urine, Serum), Cortisol (Urine) Cortisol (Serum), Total IgE, Ferritin, RBC Folate, Folic Acid/Folate, VB12, Homocysteine, Myoglobin, TnI-Ultra, BNP, CK-MB, Insulin, C-Peptide (Serum), C-Peptide (Urine), HAV-IgM, Carbamazepine, Digoxin, Gentamicin, Theophylline, Tobramycin, Valproic Acid, Vancomycin, AFP, CA 15-3, CEA, PSA, Complexed PSA, BR 27-29, CA125II, CA19-9, free T4, free T3, iPTH, T3, T4, TSH, TSH-3, T-Uptake, Estradiol-6 III, FSH, HCG (Total HCG), LH, Progesterone, Prolactin, Total Testosterone
<b>Throughput:</b>	Up to 180 tests per hour in random access or batch
<b>Time to First Result:</b>	15 minutes
<b>Sample Size:</b>	Varies by test
<b>Frequency of Calibration:</b>	Assay dependent, 3-28 days
<b>What differentiates your product from other products on the market?</b>	Optimal productivity, speed and efficiency and the power to process up to 180 tests per hour; 15 refrigerated onboard reagents, 84 sample onboard capacity, and no pause loading/unloading of samples, reagents and consumables. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Random access
<b>Separation Methodologies:</b>	Magnetic particle

<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	15 reagents with 50-200 tests per container (assay dependent)
<b>Reagents Refrigerated Onboard:</b>	Refrigerated reagents with barcode identification, automatic inventory tracking and flagging, calibration validity tracked and flagged, reagent onboard residency tracked and flagged, reagent expired/low flags.
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	400 tests
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	No daily startup; 15 minutes daily maintenance
<b>Product:</b> ADVIA Centaur® XP	
<b>Methodologies Used:</b>	Direct chemiluminescence
<b>Tests Available in the U.S.:</b>	Total IgE, Ferritin, RBC Folate, Folic Acid/Folate, Vitamin B12, BNP, CK-MB, Homocysteine, Myoglobin, TnI- Ultra, C-Peptide (Serum), C-Peptide (Urine), Insulin, HAV Total, HAV IgM, HBc Total, HBc IgM, Anti-HBs, HBsAg, HBsAg Confirmatory, HCV, HIV Enhanced (1/O/2), Rubella IgG, Rubella IgM, Toxoplasma IgG, Toxoplasma IgM, Cortisol (Urine), Cortisol (Serum), AFP, Estradiol-6, Estradiol-6 III, FSH, HCG (Total HCG), LH, Progesterone, Prolactin,, Total Testosterone, Carbamazepine, Digitoxin, Digoxin, Gentamicin, Phenobarbital, Phenytoin, Theophylline, Tobramycin, Valproic Acid, Vancomycin, Free T3, Total T3, Free T4, Total T4, Intact PTH, Anti-TG, Anti-TPO, Thyroid Uptake, TSH, Third Generation TSH, BR27-29, CEA, CA15-3, CA125II, CA19-9, Her-2/neu, PSA, Complexed PSA
<b>Throughput:</b>	Up to 240 tests/hour
<b>Time to First Result:</b>	18 minutes, then every 15 seconds thereafter
<b>Sample Size:</b>	10 µL to 200 µL; assay dependent
<b>Frequency of Calibration:</b>	Assay dependent, 7-42 days; most assays are 28 days
<b>Other Utility Requirement:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	Comprehensive disease state menu including HIV; disposable pipette tips that eliminate sample-to-sample carryover, automatic dilution, repeat and reflex testing; Smart Algorithm Software automatically repeats and confirms reactive infectious disease tests. Offers integrated data management, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access
<b>Separation Methodologies:</b>	Magnetic particle
<b>Sample Handling System:</b>	5 position universal rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	30 refrigerated onboard reagents; 50-200 tests/kit (assay dependent)

<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	840 test walkaway capacity
<b>System Liquid or Dry:</b>	Liquid, ready to use
<b>Average Length of System Startup Time and Daily Maintenance:</b>	No daily start-up; automated daily maintenance is 40 minutes with 5 minutes of hands-on time
<b>INTEGRATED SYSTEMS</b>	
<b>Contact:</b>	Christina Tassone 847-830-1939 christina.tassone@siemens.com
<b>Product:</b>	Dimension® EXL™ Integrated Chemistry Analyzer (upgradeable with LOCI® module)
<b>Methodologies Used:</b>	ACMIA, EMIT®, PETINIA, photometry, potentiometry
<b>Tests Available in the U.S.:</b>	Calcium, Creatinine, Direct Bilirubin, Enzymatic Carbonate, Iron, Magnesium, Phosphorus, Total Bilirubin, Total Iron-Binding Capacity, IBCT (No Pre-Treat), Total Protein, Urea Nitrogen, Uric Acid, Carbon Dioxide, Chloride, Potassium, Sodium, Acid Phosphatase, Alanine Aminotransferase, Alkaline Phosphatase, Amylase, Aspartate, Aminotransferase, Creatine Kinase, Creatine Kinase MB, Isoenzyme, Glutamyl Transferase, Lactic Dehydrogenase, Lipase, Pseudocholinesterase, Hemoglobin A1c, Glucose (Liquid), Microalbumin, Cardiac Troponin I, Mass CK-MB, Myoglobin, NT-proBNP, CardioPhase® hsCRP, Cholesterol, Automated HDL, Cholesterol, Automated LDL, Cholesterol, Triglycerides, Thyroid Stimulating Hormone. Thyronine Uptake, Total Thyroxine/Total T4, Free Thyroxine/Free T4, Triiodothyronine, Urine Amphetamine Screen, Urine Barbiturates Screen, Urine Benzodiazepines Screen, Urine Cannabinoids Screen, Urine Cocaine Metabolite Screen, Urine Ecstasy, Urine Methadone Screen, Urine Opiates Screen, Urine Propoxyphene Screen, Ethyl Alcohol, Salicylate, Serum Barbiturates, Serum Benzodiazepines, Serum Tricyclic Antidepressants, Urine Methaqualone Screen, Gentamicin, Tobramycin, Vancomycin, Digoxin, Digitoxin, N-Acetylprocainamide, Lidocaine, Procainamide, Carbamazepine, Cyclosporine, Cyclosporine Extended Range, Lithium, Phenobarbital, Phenytoin, Tacrolimus, Theophylline, Valproic Acid, Complement C3, Complement C4, C-Reactive Protein, IgA, IgG, IgM, Transferrin, Ammonia, Urine/Cerebrospinal Fluid Protein, Lactic Acid, Prealbumin, HCG Hormone, Ferritin, Total PSA, Free PSA
<b>Throughput:</b>	624 tests/hour
<b>Time to First Result:</b>	< 60 seconds
<b>Sample Size:</b>	5, 7 and 10 mL primary tubes
<b>Frequency of Calibration:</b>	30-90 days
<b>What differentiates your product from other products on the market?</b>	Integrates heterogeneous immunoassays onboard with other chemistries; upgradeable with LOCI module; single platform for over 95% of most requested tests; eliminates sample splitting between general chemistry tests and immunoassays; fully automated onboard ISD assays. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Other Utility Requirement:</b>	Deionized water NCCLS Type 2
<b>Operational Type:</b>	Batch, random access, continuous random access

<b>Separation Methodologies:</b>	Magnetic particle
<b>Sample Handling System:</b>	Segmented sample wheel
<b>Number of Reagent Containers Onboard/Tests/Container:</b>	91/15-360
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Yes (can be hours)
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	System startup not required. Daily maintenance < 5 minutes.
<b>Product:</b> Dimension® EXL™ with LM Integrated Chemistry Analyzer	
<b>Methodologies Used:</b>	LOCI®, ACMIA, EMIT®, PETINIA, photometry, potentiometry
<b>Tests Available in the United States:</b>	Calcium, Creatinine, Direct Bilirubin, Enzymatic Carbonate, Iron, Magnesium, Phosphorus, Total Bilirubin, Total Iron-Binding Capacity, IBCT (No Pre-Treat), Total Protein, Urea Nitrogen, Uric Acid, Carbon Dioxide, Chloride, Potassium, Sodium, Acid Phosphatase, Alanine Aminotransferase, Alkaline Phosphatase, Amylase, Aspartate, Aminotransferase, Creatine Kinase, Creatine Kinase MB, Isoenzyme, Glutamyl Transferase, Lactic Dehydrogenase, Lipase, Pseudocholinesterase, Hemoglobin A1c, Glucose (Liquid), Microalbumin, Cardiac Troponin I, Mass CK-MB, Myoglobin, NT-proBNP, CardioPhase® hsCRP, Cholesterol, Automated HDL, Cholesterol, Automated LDL, Cholesterol, Triglycerides, Thyroid Stimulating Hormone. Thyronine Uptake, Total Thyroxine/Total T4, Free Thyroxine/Free T4, Urine Amphetamine Screen, Urine Barbiturates Screen, Urine Benzodiazepines Screen, Urine Cannabinoids Screen, Urine Cocaine Metabolite Screen, Urine Ecstasy, Urine Methadone Screen, Urine Opiates Screen, Urine Propoxyphene Screen, Ethyl Alcohol, Salicylate, Serum Barbiturates, Serum Benzodiazepines, Serum Tricyclic Antidepressants, Urine Methaqualone Screen, Gentamicin, Tobramycin, Vancomycin, Digoxin, Digitoxin, N-Acetylprocainamide, Lidocaine, Procainamide, Carbamazepine, Cyclosporine, Cyclosporine Extended Range, Lithium, Phenobarbital, Phenytoin, Tacrolimus, Theophylline, Valproic Acid, Complement C3, Complement C4, C-Reactive Protein, IgA, IgG, IgM, Transferrin, Ammonia, Urine/Cerebrospinal Fluid Protein, Lactic Acid, Prealbumin, HCG Hormone, Ferritin, LOCI Cardiac Troponin I, LOCI Free Throxine, LOCI Thyroid Stimulating Hormone and LOCI NT-proBNP
<b>Throughput:</b>	624 tests/hour
<b>Time to First Result:</b>	< 60 seconds
<b>Sample Size:</b>	5, 7 and 10 mL primary tubes
<b>Frequency of Calibration (daily, weekly, monthly, or other):</b>	30-90 days

<b>What differentiates your product from other products on the market?</b>	Integrates homogeneous LOCI and heterogeneous immunoassays onboard with other chemistries; single platform for over 95% of most requested tests; eliminates sample splitting between general chemistry tests and immunoassays; fully automated onboard ISD assays. Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Other Utility Requirement:</b>	Deionized water NCCLS Type 2
<b>Operational Type:</b>	Batch, random access, continuous random access
<b>Separation Methodologies:</b>	Magnetic particle; all LOCI and EMIT methods are homogenous
<b>Sample Handling System:</b>	Segmented sample wheel
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	91/15-360
<b>Reagents Refrigerated Onboard?:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	Yes (can be hours)
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	System startup not required. Daily maintenance < 5 minutes.
<b>HEMATOLOGY</b>	
<b>Contact:</b>	Rita White (302) 631-7916 rita.f.white@siemens.com
<b>Product:</b>	ADVIA 2120i
<b>Methodologies Used:</b>	Cytochemistry, flow cytometry, laser light scatter
<b>Tests Available in the U.S.:</b>	WBC, RBC, Hgb, Hct, MCV, MCH, MCHC, Plt, CHCM, RDW, HDW, CH, CHDW, N#, N%, L#, L%, M#, M%, E#, E%, B#, B%, LUC#, LUC%, Retic#, Retic%, MCVr, CHCMr, CHr, RBC morphology (NRBC, ANISO, MICRO, MACRO, HC VAR, HYPO, HYPER, RBC Fragments, RBC Ghosts, Platelet Clumps, Large Platelets) and WBC morphology (Left Shift, Atypical Lymph, Blasts, Immature Granulocytes, Myeloperoxidase Deficiency), CSF WBC, CSF RBC, CSF PMN, CSF MN, CSF N# and N%, CSF L# and L%, CSF M# and M%
<b>Throughput:</b>	120 CBC samples per hour/74 retics per hour
<b>Time to First Result:</b>	2.5 minutes
<b>Sample Size:</b>	157 whole blood, 300 CSF
<b>Frequency of Calibration:</b>	Minimum of every 6 months
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Dependent on configuration
<b>Reagents Refrigerated Onboard?</b>	No
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	150 specimens/1,800 CBC/Automated Diff
<b>System Liquid or Dry:</b>	Liquid

<b>Walkaway Capacity in Specimen/Tests Assays:</b>	150 specimens/1,800 CBC/Automated Diff
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Startup < 2 minutes; daily wash cycles 6.5 minutes each
<b>Other Utility Requirements:</b>	Dedicated electrical line
<b>What differentiates your product from other products on the market?</b>	Manual open-tube and closed-tube sampling; small reagent consumption; flexible rack-based autosampler; dual WBC methodology, dual Hgb methodology, optional MultiSpecies test selectivity software supports 23 species and strains plus 30 user-definable species; CSF assay performs automated RBC and WBC differential; system integrates with ADVIA Autoslide (sold separately).
<b>Operational Type:</b>	Continuous random access
<b>Product:</b>	ADVIA 120
<b>Methodologies Used:</b>	Cytochemistry, flow cytometry, laser light scatter
<b>Tests Available in the U.S.:</b>	WBC, RBC, Hgb, Hct, MCV, MCH, MCHC, Plt, CHCM, RDW, HDW, CH, CHDW, N#, N%, L#, L%, M#, M%, E#, E%, B#, B%, LUC#, LUC%, Retic#, Retic%, MCVr, CHCMr, CHr, RBC morphology (NRBC, ANISO, MICRO, MACRO, HC VAR, HYPO, HYPER, RBC Fragments, RBC Ghosts, Platelet Clumps, Large Platelets) and WBC morphology (Left Shift, Atypical Lymph, Blasts, Immature Granulocytes, Myeloperoxidase Deficiency), CSF WBC, CSF RBC, CSF PMN, CSF MN, CSF N# and N%, CSF L# and L%, CSF M# and M%
<b>Throughput:</b>	120 CBC samples per hour/74 retics per hour
<b>Time to First Result:</b>	2.5 minutes
<b>Sample Size:</b>	157 whole blood, 300 CSF
<b>Frequency of Calibration:</b>	Minimum of every 6 months
<b>Other Utility Requirements:</b>	Dedicated electrical line
<b>What differentiates your product from other products on the market?</b>	Manual open-tube and closed-tube sampling; small reagent consumption; flexible rack-based autosampler; dual WBC methodology, dual Hgb methodology, optional MultiSpecies test selectivity software supports 23 species and strains plus 30 user-definable species; CSF assay performs automated RBC and WBC differential; system integrates with ADVIA Autoslide (sold separately).
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Dependent on configuration
<b>Reagents Refrigerated Onboard?</b>	No
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	150 specimens/1,800 CBC/Automated Diff
<b>System Liquid or Dry:</b>	Liquid

<b>Average Length of System Startup Time and Daily Maintenance:</b>	Startup < 2 minutes; daily wash cycles 6.5 minutes each
<b>URINALYSIS</b>	
<b>Contact:</b>	John Ebbs (352) 242-8320 John.ebbs@siemens.com
<b>Product:</b>	CLINITEK AUWi, CLINITEK ATLAS
<b>Methodologies Used:</b>	Dry pad test measure, refractive index, fluorescent flow cytometry, laser light scatter
<b>Tests Available in the U.S.:</b>	Leukocyte Esterase, Nitrite, Occult Blood, Protein, Glucose, Ketones, Urobilinogen, Bilirubin, pH, Specific Gravity, Color, Clarity, WBC, RBC, Epithelial Cells, Hyaline Casts, Bacteria, Pathological casts, Crystals, Small Round Cells, Sperm, Yeast,
<b>Throughput:</b>	80 samples an hour on the AUWi, up to 225 an hour on the stand alone Atlas
<b>Time to First Result:</b>	4 minutes on the AUWi, < 1 minute on a standalone Atlas
<b>Sample Size:</b>	4 mL on the AUWi, 2 ml on a standalone Atlas
<b>Frequency of Calibration:</b>	Minimum of every 6 months
<b>Other Utility Requirements:</b>	Dedicated electrical line
<b>What differentiates your product from other products on the market?</b>	Streamlines workflow, unattended operation, enhanced clinical results
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	Rack
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	Dependent on configuration
<b>Reagents Refrigerated Onboard?</b>	No
<b>Walkaway Capacity in Specimen/ Tests Assays:</b>	100 specimens on the AUWi, 200 on the Atlas
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Startup: < 2 minutes; daily wash cycle: 10 minutes each
<b>Trinity Biotech</b> www.trinitybiotech.com	
<b>COAGULATION</b>	
<b>Contact:</b>	Beth Gladwell (800) 325-3424 beth.gladwell@trinityusa.com
<b>Product:</b>	Destiny Plus

<b>Methodologies Used:</b>	Mechanical, optical, immunoturbidimetric and chromogenic
<b>Tests Available in the U.S.:</b>	PT, PTT, FIB, DD, TT, Prot S, Prot C, ATIII, all Factor assays, Lupus Screen and Confirm
<b>Throughput:</b>	180 tests per hour
<b>Time to First Result:</b>	< 3 minutes
<b>Sample Size:</b>	Any primary coagulation tube, including pediatric samples
<b>Other Utility Requirement:</b>	Deionized water
<b>What differentiates your product from other products on the market?</b>	Only analyzer that can perform mechanical, optical, immunoturbidimetric or chromogenic assays on the one platform. It also can perform routine tests using 1/4 volume reagent and patient samples. Offers calibration for the PT and aPTTT assays using our unique system standardization approach (TriniVerical). Offers integrated data management, open reagent system, primary tube sampling, positive sample ID and onboard dilution.
<b>Operational Type:</b>	Continuous random access or batch
<b>Sample Handling System:</b>	Racks
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	31
<b>Reagents Refrigerated Onboard:</b>	Yes (to a cooled temperature)
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	50 specimens, continuous loading
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of System Startup Time and Daily Maintenance:</b>	Startup time < 5 minutes, no daily maintenance
<b>Vital Diagnostics</b> www.vitaldiagnostics.com	
<b>CHEMISTRY</b>	
<b>Contact:</b>	Mark Moran (800) 345-2822 USSales@vitaldiagnostics.com
<b>Product:</b>	Envoy 500 Chemistry Analyzer
<b>Methodologies Used:</b>	Clinical chemistry and immunoturbidimetry
<b>Tests Available in the U.S.:</b>	General Chemistry Assays, Albumin, Bilirubin, Direct Bilirubin, Total Calcium, Creatinine, Glucose, Iron, Total Magnesium, Phosphorus, Protein, Total Urea Nitrogen (BUN), Uric Acid, Enzyme Assays, Alanine, AminoTransferase, Alkaline Phosphatase, Amylase, Aspartate, Transaminase, Creatine, Phosphokinase, Gamma Glutamyl Transferase Lactate Dehydrogenase Special Chemistry Assays, Hemoglobin A1c, Lipids Assays, Direct LDL, Triglycerides, Direct HDL, Cholesterol, Electrolyte Assays, Carbon Dioxide, Chloride Potassium Sodium
<b>Throughput:</b>	570 tests per hour wih ISE
<b>Time to First Result:</b>	3:46

<b>Sample Size:</b>	3-54 ul
<b>Frequency of Calibration:</b>	2 weeks
<b>What differentiates your product from others on the market?</b>	High throughput, ideal for low- and mid-volume labs; small footprint; 4 parameter dry ISE system including carbon dioxide; open reagent system; primary tube sampling; positive sample ID; onboard dilution
<b>Operational Type:</b>	Continuous random access
<b>Sample Handling System:</b>	78-position rotor
<b>Number of Reagent Containers Onboard/Tests/ Container:</b>	40 positions/40/Boat with small bottle for two part reagents
<b>Reagents Refrigerated Onboard:</b>	Yes
<b>Walkaway Capacity in Specimen/Tests Assays:</b>	52/40
<b>System Liquid or Dry:</b>	Liquid
<b>Average Length of Daily Startup Time and Daily Maintenance</b>	10 minutes