Measurement Principle:
+ Colorimetric/Rate
+ Potentiometric (direct ISEs)
+ Immuno-rate
+ Turbidimetric
+ Enhanced Chemiluminescence

Reagents:
+ No preparation*, no mixing or reconstitution required for Integrated Reagent Packs, Signal Reagent, Universal Wash Reagent, Electrolyte Reference Fluid (ERF), or Immuno-Wash Fluid (IWF)
+ Onboard stability up to 84 days
+ Shelf life stability up to 18 months from date of manufacture**
+ Onboard test capacity:
  • Up to 11,440 assays
  • 150 reagent positions:
    - 89 MicroSlide Cartridges (18, 50, or 60 tests/cart)
    - 31 MicroWell Packs (50 or 100 tests/pack)
    - 30 MicroTip Packs (50 or 100 tests/pack)

User-Defined Channels:
+ 10 available (MicroTip)

Consumables:
+ VersaTips, MicroTips, Cuvettes, Signal Reagent and Universal Wash Reagent can be replenished without interrupting system operation. Reagents replenished without interrupting incubation. ERF and IWF can be replenished when all MicroSlides have completed
+ Onboard capacity:
  • VersaTips: 2000
  • MicroTips: 384
  • Cuvettes: 348
  • Signal Reagent: 3 packs
  • Universal Wash Reagent: 5 liters
  • ERF: 800 drops
  • IWF: 300 drops

Calibration:
+ Up to 25 lots per assay with automatic lot switching
+ MicroSlide and MicroTip assays stable up to lot change
+ MicroWell stable for up to 28 days
+ Random-access calibration
+ Bar-coded calibrators for MicroSlide and MicroWell assays

System Startup:
+ 24-hour ready mode
+ No manual primes, purges, washes or tubing maintenance
+ No daily calibrations or calibration checks
+ Automatic integrated prime/purge for MicroWell assays

Time for Single Result:
+ Potentiometric: ~ 2.5 minutes
+ Colorimetric: ~ 6 minutes
+ Immuno-rate: ~ 8 minutes
+ MicroTip: ~ 8-16 minutes
+ MicroWell: ~ 16-73 minutes
+ Real-time results data stream to LIS available

Throughput:
+ Maximum theoretical throughput is up to 945 tests per hour
+ Actual throughput will vary by test mix and sample workflow

Sample Types:
+ Serum, Plasma, Urine, CSF, Whole Blood,***
+ Amniotic Fluid****

Sample Volume:
+ Per assay: 2-80μL
+ Dead volume: minimum 35μL

Sample Capacity:
+ Continuous load and unload
+ 80 samples in Universal Sample Trays
+ 10 samples in dedicated STAT lane
Sample and Reagent Management Incorporating Intellicheck® Technology:

+ Single-use Tip Metering verifies sample aspiration and dispense, eliminates carryover and addresses cross-contamination concerns
+ Clot, bubble, low and high viscosity, thin layer fluid and short sample detection
+ Save-the-Sample Clot/Bubble Management
+ Liquid level sensing
+ MicroSlide, MicroWell and Cuvette Dispense Verification
+ Reagent aspiration and dispense verifications
+ Onboard IntelliReport provides complete traceability and documentation of result quality

Sample Containers:

+ Universal Sample Trays accommodate:
  • 5mL, 7mL, 10mL collection tubes
  • 1.5mL micro-collection containers
  • VITROS® microsample cups and 0.5mL and 2.0mL cups

Sample Bar Code Identification:

+ Autodiscriminates by simultaneously recognizing all standard symbologies:
  • Code 128
  • ISBT 128
  • Code 39
  • Codabar
  • Interleaved 2 of 5

Dilution Capabilities:

+ Auto reflex dilution
+ Operator requested dilution
+ Off-board dilution calculation

Automatic Reflex Testing (based on user-configuration):

+ Reflex to different assays
+ Reflex to the same assay

Operator Interface:

+ Color-coded graphical user interface
+ Ergonomic flat, low-glare, LCD, 17-inch touchscreen monitor
+ Numeric keypad on monitor
+ Detached keyboard for maximum flexibility
+ Onboard documentation and animated Help (V-Docs)
+ Onboard maintenance documentation

Data Storage:

+ Read/write disk drive for data input and archiving
+ USB flash drive (memory stick) capabilities
+ 5,000 sample programs
+ 25,000 samples with ability to archive and retrieve through CD-ROM or USB flash drive

System Dimensions:

+ Width: 2.79 m/110 inches
+ Depth: 0.89 m/34.9 inches
+ Height: 1.73 m/68 inches
+ Weight: 1070.5 kg/2360 pounds

Power:

+ Line Voltage: 2 dedicated 20 amp power lines or 1 dedicated 30 amp power line with UPS, nominal 200-240V AC
+ Line Frequency: 47-63 Hz

Environment:

+ Operating temperature: 15°-30°C/59°-86°F
+ Altitude: up to 2,439 m/8,000 feet
+ Plumbing: No water or drain required; self-contained onboard waste management eliminates special requirements for off-board plumbing

Communications:

+ Laboratory Information System (LIS):
  • Bidirectional interface for ASTM and HL7 protocols
  • Broadcast download and Host Query
  • Results can be uploaded individually or as an entire sample
+ Laboratory Automation System (LAS):
  • AT ready at launch
  • 2 LAS interfaces, point-in-space
  • RS 232 serial ports (for LIS and LAS)
  • USB ports (for printers)
  • Ethernet ports (for e-Connectivity™ LIS)
  • Automatic two-way data exchange to automatically send and retrieve data
  • Automatic download of system software updates
  • Remote connectivity provides the ability to enable remote diagnostics and remote control operation
  • Enhance uptime with predictive alerts

1 Availability is subject to local regulatory requirements
* Except Caffeine
** Gentamicin: 24 months; Caffeine: 36 months
*** For %Hemoglobin A1c and Red Cell Folate
**** Not commercially available in the United States

www.orthoclinical.com
All trademarks are the property of Ortho-Clinical Diagnostics, Inc.
© Ortho-Clinical Diagnostics, Inc. 2013 CL12219 OCD8950715