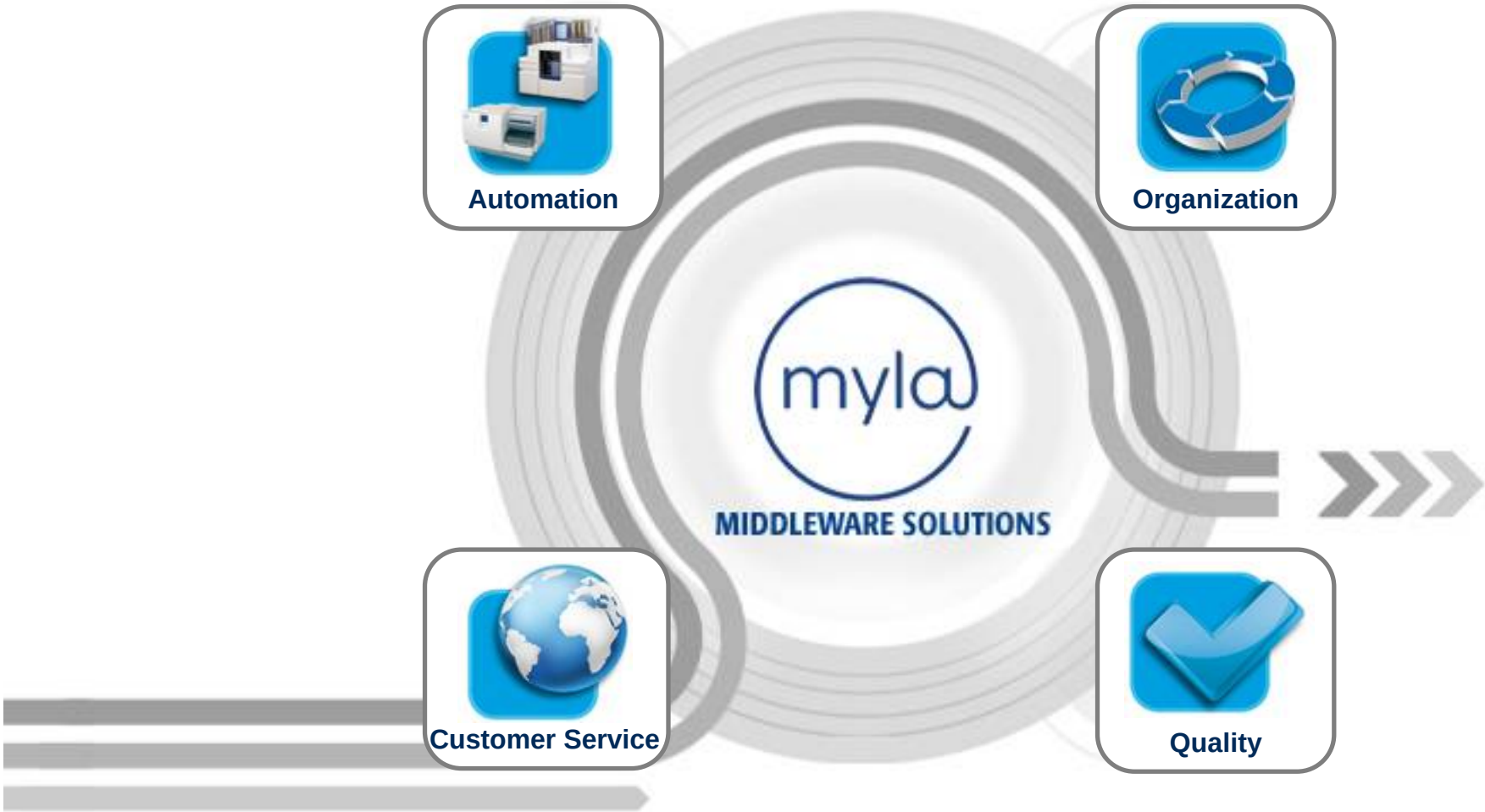
bioMérieux systems

September 2011

Overview

BIOMÉRIEUX

Microbiology: FMLA™ - Full Microbiology Lab Automation



Reducing time-to-results
so clinicians can select treatment faster

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Microbiology: Urinary screening - UF-1000i/500i

Advanced flow cytometry technology with hydrodynamic focusing for urinary screening

- Distribution agreement in France, Germany, the Netherlands, UK, South Korea, and Australia
- High quality by accurate detection and enumeration of urine particles
- Standardized results with capabilities to screen out negative samples
- In line with customer needs
  - Standardization
  - Time-saving
  - Traceability

Launched in September 2007

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Microbiology : PREVI™ Color Gram

- Full automated Gram staining system : from fixation to the slide ready for reading
- Direct analysis

- A fast, reliable & user friendly system
  - Result in less than 5 minutes
- Accurate standardized results
  - No cross contamination
- Clean and Safe
  - System entirely enclosed with a waste container
- Environmentally friendly system
  - Spray nozzles
  - Less consumption and waste

- Pre-launch in about 10 European countries in 2008
- Global launch in 2009

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Microbiology: PREVI™ Isola

- Pre-analytical processing
- Specimen inoculation automation

- Standardized plate inoculation
- Time saving with high throughput 180 plates / hour
- No cross contamination
- Optimized colony isolation
- High quality for plate streaking
- Enhanced productivity
- Breakthrough technology for innovation in plate streaking

- Pre-launched in 2008 in the Netherlands, Germany and the U.S.
- Gradual rollout to other regions in 2009

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Microbiology: VITEK®

- Fully automated identification (ID) and antibiotic susceptibility testing (AST)
- Featuring Advanced Expert System™ result interpretation software

- The standard for routine identification
  - Coverage: 90% of the routine work in a normal clinical laboratory
  - 64-well cards with proprietary and innovative substrates
- The highest level of automation
  - Full automation and safety (inoculation, sealing, and incubation of the card)
  - Accuracy
  - Rapid reporting (same day ID / AST results)
  - Resistance detection
  - Separate ID / AST testing
  - Reduced waste
  - After-sale service and high level of technical support
  - 21 CFR Part 11 compliant

Launched:

- 1977 - VITEK
- 1997 - VITEK®2
- 2004 - VITEK®2 Compact

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VITEK® MS

- MALDI-TOF mass spectrometry (MS)
  - Extract the ions from the sample: Matrix-Assisted Laser Desorption / Ionization (MALDI)
  - Separate the ions by m/z: Time-of-Flight Analysis (TOF)
  - Detect the ions

- Mass spectrometry for identification of bacteria, yeast, fungi, and mycobacteria
  - Fast ID
  - Broad range of organisms
  - Cost-effective solution for large laboratories
- Workflow integration via Myla™
- Integrated with VITEK® 2 for antibiotic susceptibility testing (AST)

European commercial launch in Q1 2011

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Microbiology: BacT/ALERT®

- Bloodculture
- Direct culture of blood samples and other fluids

- Early detection of septicemia and industrial sterility control
- “Yes – No” test for bacteria
  - Automated colorimetric detection system - with visual positive signal
  - Immediate notification of results
- Plastic bottles to ensure safety
- New media: synthetic resin beads to replace activated charcoal suspension in Q4 2011
  - Neutralization of antibiotics in clinical samples and industrial products
  - A clear Gram stain

Launched:

- BacT/ALERT® in 1991
- BacT/ALERT® 3D in 1997

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Immunoassays : VIDAS® and mini VIDAS®

- Antigen-antibody reaction
- Detects and measures infectious agents: bacteria, viruses, parasites, hormones, proteins
- ELFA - Enzyme Linked Fluorescent Assay technology

- The world's largest installed base* in IA laboratories, with more than 25,000 VIDAS® and mini VIDAS® clinical systems
- Multi-parameter instrument
- Large menu with > 90 parameters
- One of the most reliable instrument: MTBF** VIDAS® = 660 days / mini VIDAS® = 1,150 days
- Flexible and easy-to-use
- Single test concept tailored to the small volume market

- Launched in 1991 for VIDAS®
- Launched in 1992 for mini VIDAS®

** College of American Pathologists: Automated Immunoassay Analyzers – June 2009*
***Mean Time Between Failures*

Immuoassays: DA VINCI®

DA VINCI® QUATTRO™

Launched in 2003

Microplate immunoassay tests

- Up to 192 sample tubes loaded at one time
- Used by medium-sized blood banks and large laboratories
- Extensive set of in-process controls
- Loading tower: 15 microplates
- Traceability
- Easy to operate
- « Open » system: possibility of adding other assays

BIOMÉRIEUX

Molecular Biology: NucliSENS® easyMAG®

Launched in 2005

- Simplification and automation of sample preparation in molecular biology laboratories
- BOOM® technology: the reference technology in extraction
- Automated nucleic acid extraction - magnetic extraction

- A single generic protocol for all samples
- Up to 240 extractions in an 8-hour shift
- Less than 15 minutes of hands-on-time per 24 extractions
- Simultaneous processing different samples and volumes
- User comfort
  - Simplicity
  - Flexibility
  - Quality
  - Time saving

BIOMÉRIEUX

Molecular Biology: NucliSENS EasyQ®

- First automated system to combine NASBA™ technology, amplification technology - and real-time molecular beacon detection
- Amplification process at the same temperature
- Nucleic acid amplification and detection of infectious disease agent

- 8 - 48 tests per run
- Throughput: 48 sample results with amplification times from 60 to 150 minutes
- Main targeted pathologies:
  - Therapeutic monitoring - HIV viral load
  - Respiratory panel
  - Central Nervous system
  - Basic Kit
  - HPV detection

Launched in 2002

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Molecular Biology: DiversiLab®

- Microbial genotyping of bacteria and fungi
- Based on patented rep-PCR technology

- For tracking the spread and source of microbial infection, contamination, or epidemics
- Microbial isolates to be quickly and accurately distinguished at the subspecies and strain level
  - Precise and economical solution
  - Results in 4 hours

Launched in 2007

BIOMÉRIEUX

Industrial Applications

VIDAS® and
mini VIDAS®

VITEK® compact

TEMPO®

BacT/ALERT® 3D Dual-T

Industrial applications : TEMPO®

- Automated solution for the enumeration of quality indicator microorganisms

- Ease of use
- Fast turnaround time for accurate and standardized results
- Standardization of numerous preparation steps, interpretation, and test results
- TEMPO® system's menu: a broad range of tests to answer different needs
- Incubation of 24 to 48 hours

Launched in 2005

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