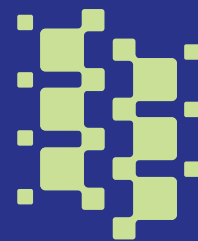


Vitros[®] 4600 chemistry system¹ specifications sheet



Measurement principle:

- Colorimetric/rate
- Potentiometric (direct ISEs)
- Immuno-rate
- Turbidimetric

Reagents:

- No preparation*, no mixing or reconstitution required for integrated reagent packs, Electrolyte Reference Fluid (ERF), or Immuno-Wash Fluid (IWF)
- Onboard stability up to 35 days
- Shelf life stability up to 18 months from date of manufacture[†]
- **Onboard test capacity:**
 - Up to 8,940 assays
 - 125 reagent/diluent positions:
 - 89 MicroSlide cartridges (18, 50, or 60 tests/cart)
 - 36 MicroTip packs (50, 75 or 100 tests/pack)

User-defined channels:

- 10 available (MicroTip)

Consumables:

- VersaTips, MicroTips and cuvettes can be replenished without interrupting system operation. Reagents replenished without interrupting incubation
- **Onboard capacity:**

- VersaTips:	2000
- MicroTips:	384
- Cuvettes:	348
- 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*
- Random-access calibration
- Bar-coded calibrators for MicroSlide assays

System startup:

- 24-hour ready mode
- No manual primes, purges, washes or tubing maintenance
- No daily calibrations or calibration checks

Time for single result:

- **Potentiometric:** - 2.5 minutes
- **Colorimetric:** - 6 minutes
- **Immuno-rate:** - 9 minutes
- **MicroTip:** - 8-16 minutes
- Real-time results data stream to LIS available

Throughput:

- Maximum theoretical throughput is up to 845 tests per hour
- Actual throughput will vary by test mix and sample workflow

Sample types:

- Serum, plasma, urine, CSF, whole blood ‡

Sample volume:

- **Per assay:** 2-17 uL
- **Dead volume:** minimum 35 uL

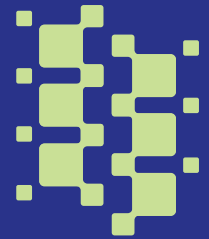
Sample capacity:

- Continuous load and unload
- 150 routine 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 and cuvette dispense verification
- Reagent aspiration and dispense verifications
- Onboard IntelliReport provides complete traceability and documentation of result quality

Vitros® 4600 chemistry system¹ specifications sheet



Sample containers:

• Universal sample trays accommodate:

- 5mL, 7mL, 10mL collection tubes
- 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
- 10,000 sample programs
- 25,000 samples with ability to archive and retrieve through CD-ROM or USB flash drive

System dimensions:

- **Width:** 2.34 m/92.2 inches
- **Depth:** 0.84 m/33.4 inches
- **Height:** 1.33 m/52.5 inches
- **Weight:** 612 kg/1349 pounds

Power:

- **Line voltage:** 1 dedicated 20 amp power line, nominal 200-240V AC
- **Line frequency:** 47-63 Hz

Environment:

- Operating temperature: 15°-30°C/59 °-86° F
- Ambient relative humidity: 15%-75% RH
- 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 AST M and HL7 protocols
- Broadcast download and Host Query
- Results can be uploaded individually or as an entire sample or by group

• Laboratory automation system (LAS):

- AT ready at launch
- 1 LAS interfaces, point-in-space

• Ports:

- RS 232 serial ports (for LIS and LAS)
- USB ports (for printers)
- Ethernet ports (for E-connectivity® Technology, LIS)

E-Connectivity interactive system management:

- Using the facility's DSL or other internet connection, VPN establishes a secure connection between system and QuidelOrtho technical support to enhance troubleshooting and increase uptime
- 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.



We are transforming the power of diagnostics into a healthier future for all.

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EMEA PR - 15178

July 2023