One Solution—More Choice.

Advancing flexibility, workflow, customization, and consolidation.

The VERSANT kPCR Molecular System

www.siemens.com/molecular
Leading the way in molecular diagnostics.

The VERSANT kPCR Molecular System, now featuring the new VERSANT MiPLX Software Solution, is a comprehensive and flexible solution for molecular diagnostics.

The VERSANT® kPCR Molecular System is an automated solution that provides standardized sample extraction, flexible open-channel capabilities for laboratory-developed and third-party assays, and quality assays for infectious-disease testing.

The VERSANT kPCR Molecular System with the MiPLX Software Solution is from Siemens. Siemens has a history of partnering with healthcare professionals to advance diagnostic testing through the screening and early detection of infectious diseases. The VERSANT kPCR Molecular System and the MiPLX Software Solution demonstrate our commitment to helping physicians better predict and monitor patient outcomes while offering streamlined workflow solutions for the lab.

The VERSANT kPCR Molecular System with the MiPLX Software Solution advances lab workflow through automation.

The VERSANT kPCR Molecular System provides flexibility, efficiency, and productivity with its ease of use, minimum hands-on time, maximum walkaway time, and fast turnaround time.¹

The VERSANT kPCR Molecular System: One Solution—More Choice.
The VERSANT kPCR Molecular System with the MiPLX Software Solution provides sample-handling flexibility coupled with proprietary technology for true molecular-testing versatility.

Positive sample identification
- System tracks sample/patient ID from primary tube to result.
- Primary-tube sampling supports multiple tube sizes.

Contamination controls
- Air displacement pipetting (ADP).
- Disposable, filtered pipette tips.
- CO-RE technology† (compressed O-ring expansion).
- Uracl-N-glycosylase (UNG).

System reliability
- Accurate liquid delivery with unique total aspiration and dispense monitoring (TADM) technology.
- Anti-droplet control (ADC).

Optimized laboratory workflow
- Multiple sample types per run.
- Short turnaround times.
- Universal DNA and RNA extraction process that supports a wide range of testing applications.

MiPLX Software Solution
- Variety of automated sample extraction protocols to support your other laboratory needs.
- Automated PCR setup for laboratory-developed and third-party assays.
- Multiple assays per individual sample and run by splitting the eluate instead of the sample.

Enhanced versatility
- Expand the capability of existing open protocols with features that enable the consolidation of Siemens assay menu with laboratory-developed and third-party assays on a single platform.

<table>
<thead>
<tr>
<th>Metric</th>
<th>VERSANT kPCR Molecular System</th>
<th>Abbott m2000</th>
<th>COBAS AmpliPrep/COBAS TaqMan System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Footprint</td>
<td>~1.4 m² (16 ft²)</td>
<td>~1.5 m² (16 ft²)</td>
<td>~2.7 m² (26 ft²)</td>
</tr>
<tr>
<td>Sample capacity</td>
<td>89–94</td>
<td>93</td>
<td>63</td>
</tr>
<tr>
<td>Consumables</td>
<td>Moderate</td>
<td>Moderate</td>
<td>High</td>
</tr>
<tr>
<td>Ready-to-use reagents</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Daily maintenance</td>
<td>8 minutes</td>
<td>15 minutes</td>
<td>5 minutes</td>
</tr>
<tr>
<td>Manual labor (48 samples)</td>
<td>34 minutes</td>
<td>75 minutes</td>
<td>52 minutes</td>
</tr>
<tr>
<td>Quantitative run time (48 samples)†</td>
<td>5 hours, 24 minutes</td>
<td>7 hours, 17 minutes</td>
<td>6 hours, 33 minutes</td>
</tr>
<tr>
<td>Qualitative run time (48 samples)‡</td>
<td>3 hours, 48 minutes</td>
<td>4 hours, 34 minutes</td>
<td>NA</td>
</tr>
<tr>
<td>Integrated system</td>
<td>No</td>
<td>No</td>
<td>Yes (with docking)</td>
</tr>
<tr>
<td>Open system capability</td>
<td>Yes, with VERSANT MiPLX Software Solution</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

† Listed run time based on HIV assay.
‡ Listed run time based on CT/GC assay.

*Product availability may vary from country to country. Not available in the U.S.
† CO-RE, TADM, and ADC are patented, proprietary technologies of Hamilton Company.
Raising quality. Ensuring accuracy.

Nucleic acid extraction

The VERSANT kPCR Sample Prep System allows consolidation of nucleic acid extractions on one benchtop platform. Our automated universal extraction technology isolates both DNA and RNA from a variety of clinical samples using a common set of reagents—reducing inventory and maximizing lab efficiency. The foundation of our extraction technology is proprietary magnetic particles coated with a nanolayer of silica. These particles provide efficient isolation of high-quality nucleic acids, ensuring accuracy and confidence in results.

Siemens’ magnetic particles with a nanolayer of silica coating are very small (<1 µm) and homogeneous in size and form compared to another manufacturer’s beads.

Increased lab efficiency and productivity

- One platform and two reagent kits for both DNA and RNA—for all samples and workloads—minimize equipment needs and QC management concerns.
- Fast, easy setup and walkaway operation.
- Up to 96 samples extracted in under three hours.
- Nine sample extraction protocols enable flexible input and output volumes.
- Primary-tube sampling supports a variety of sample tube types and sizes, including:
  - 11–14.5 x 60 mm
  - 14–18 x 100 mm
  - Gel separator tubes

Confidence in results

- System tracks sample ID from primary tube to eluate to results.
- Process surveillance monitors the execution of all liquid handling and robotic steps.

Universal DNA and RNA extraction protocol

Confidence in results

- System tracks sample ID from primary tube to eluate to results.
- Process surveillance monitors the execution of all liquid handling and robotic steps.

Universal DNA and RNA extraction protocol

Confidence in results

- System tracks sample ID from primary tube to eluate to results.
- Process surveillance monitors the execution of all liquid handling and robotic steps.
Adding flexibility. Meeting new challenges.

Open-channel system

Our proprietary extraction technology, open-channel system, and MiPLX Software Solution give labs the flexibility to develop their own protocols for the extraction, amplification, and detection of nucleic acid from unknown targets. This flexibility can help labs meet a wide range of new public health challenges. Labs can also enhance test menus with esoteric assays or emerging pathogens, as needed.

• Extraction of nucleic acids from a wide variety of sample types:
  – Plasma, serum
  – Urine
  – Whole blood
  – Stool
  – Transport media for urogenital swabs
  – Transport media for nasopharyngeal swabs
  – Breast milk
  – Cerebrospinal fluid (CSF)
  – semen
  – Buccal swab
  – Saliva/sputum
  – Cell culture
  – Ascites
  – PBMC (buffy coat)
  – Amniotic fluid
  – Tears/eye swab
  – Bronchialaveolar lavage (BAL)
  – ThinPrep collection media
  – SurePath collection media

• The customizable MiPLX Software Solution enables automated extraction and PCR setup for laboratory-developed and third-party assays.

• Dynamic protocols provide the ability to get more information out of a single sample extraction by splitting the eluate instead of the sample.

• Laboratory-developed and third-party assays have full system software capabilities, including sample ID tracking.

• Ability to define and save detection protocols with multiple parameters (e.g., thermal profile, data collection points, and data analysis methodologies).

• Simultaneously run up to six assays from a single sample.

• Results are either displayed or exported for further analysis.

Supports a variety of sample types
Improving reliability. Reducing risk.

The VERSANT kPCR Molecular System’s qualitative and quantitative assays for infectious-disease testing

The VERSANT kPCR Molecular System assay menu, complemented by our extraction technology, provides high performance and quality results. The design of each assay is thorough and robust, lowering the risk of sample contamination.

The VERSANT kPCR Molecular System assay menu

- The VERSANT HIV RNA 1.0 assay (kPCR), VERSANT HCV RNA 1.0 assay (kPCR), and VERSANT HBV DNA 1.0 assay (kPCR) are viral load assays for monitoring patients being treated for these infectious diseases.
- The VERSANT CT/GC DNA 1.0 assay (kPCR) is a qualitative assay for the detection of C. trachomatis and N. gonorrhoea.

Outstanding assay performance

- Outstanding precision across the dynamic range.
- Technology compatible with the genetic diversity of viral and bacterial variants.
- Controls go through full extraction to mimic specimen handling.
- Internal control to monitor PCR inhibition reduces risk of false-negative results.
- Minimal sample input volume facilitates repeat testing.
- Uracil-N-glycosylase (UNG) reduces risk of amplicon contamination.

Qualitative and quantitative assays:

VERSANT HIV-1 RNA 1.0 assay (kPCR)*
VERSANT HBV DNA 1.0 assay (kPCR)*
VERSANT HCV RNA 1.0 assay (kPCR)*
VERSANT CT/GC DNA 1.0 assay (kPCR)*

*Product availability may vary from country to country. Not available in the U.S.
One Solution—More Choice.

Advancing flexibility, workflow, customization, and consolidation.

From increased efficiency and new industry standards in extraction to assay reliability and system flexibility, the VERSANT kPCR Molecular System with the MiPLX Software Solution is a comprehensive molecular diagnostics solution. The open-channel concept and customizable MiPLX software set a new industry standard and further reduce the need for manual labor so that personnel can spend time on other value-added activities.

The VERSANT kPCR Molecular System with MiPLX Software Solution at a glance

- Compact footprint.
- Simple user interface.
- Bidirectional LIS interface.
- Award-winning customer service and support, including online and in-person education and training, as well as ongoing technical support.

Nucleic acid extraction for quality

- Proprietary extraction technology.
- Universal extraction protocol for DNA and RNA.
- Extraction of nucleic acid from a wide variety of sample types.
- Up to 96 samples extracted in less than three hours.
- Primary-tube sampling supports a variety of tube sizes.

Open-channel capabilities for flexibility

- Full system software capabilities.
- Nine protocols for extraction of nucleic acids.
- Ability to simultaneously run up to six assays using nucleic acid extracted from one patient sample.
- Consolidation of Siemens assays with laboratory-developed and third-party assays onto a single platform with the same workflow.

kPCR assays for confidence in results

- Positive sample identification.
- Contamination controls.
- Assay design delivers high sensitivity, accuracy, and precision.

Take the next step.

Explore how the VERSANT kPCR Molecular System with the MiPLX Software Solution can increase efficiency, flexibility, and quality in your laboratory.

Visit www.siemens.com/molecular, or contact your local Siemens sales representative for a virtual tour.
Siemens Healthcare Diagnostics, a global leader in clinical diagnostics, provides healthcare professionals in hospital, reference, and physician office laboratories and point-of-care settings with the vital information required to accurately diagnose, treat, and monitor patients. Our innovative portfolio of performance-driven solutions and personalized customer care combine to streamline workflow, enhance operational efficiency, and support improved patient outcomes.

VERSANT and all associated marks are trademarks of Siemens Healthcare Diagnostics Inc. All other trademarks and brands are the property of their respective owners.

Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

This brochure is intended for use outside the U.S. (OUS) only. Distribution or promotion to U.S. audiences is prohibited.