Consolidation and Flexibility

The VERSANT kPCR Sample Prep with the MiPLX Software Solution allows consolidation and flexibility for extractions of nucleic acids from a wide variety of specimens on one benchtop platform. The universal extraction technology isolates both DNA and RNA from specimens using one of two reagent kits, reducing inventory and maximizing lab efficiency. The VERSANT MiPLX Software Solution provides greater flexibility with a customized approach for laboratory-developed tests and other manufacturers' assays.

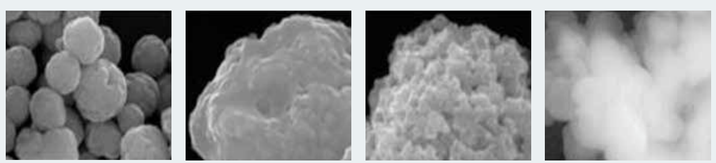
Consolidation:
Doing more
with less

Universal Extraction Technology

The foundation of the Siemens extraction technology is the proprietary silica-coated nanobeads. These magnetic particles, homogeneous in shape and size, provide efficient isolation of high-quality nucleic acids, improving accuracy and confidence in results. The unique technology enables excellent recovery and efficient liquid transfer.

Nucleic acids can be extracted from a wide variety of specimen types, including:

- 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
- Bronchial alveolar lavage (BAL)
- ThinPrep collection media
- SurePath collection media



Siemens
250 nm*

Manufacturer A
(MagNA Pure LC Total NA Kit)
3200 nm*

Manufacturer B
(Abbott m2000 sp)
1200 nm*

Manufacturer C
(QIAsymphony Virus/Bacteria Midi Kit) 4500 nm*

Figure 1. Electron microscopic pictures of different commercially available magnetic silica beads.

*Estimated mean diameter evaluated by semiautomatic image-processing routines from high-resolution scanning electron microscopy. Data on file.

Local Contact Information

Siemens Healthcare
Molecular Diagnostics
725 Potter Street
Berkeley, CA 94710-2722
USA
Phone: +1 510-982-4000
siemens.com/healthcare

Manufacturer

Siemens Healthcare Diagnostics Inc.
511 Benedict Avenue
Tarrytown, NY 10591-5005
USA

Siemens Healthcare Headquarters
Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen
Germany
Phone: +49 9131 84-0
siemens.com/healthcare

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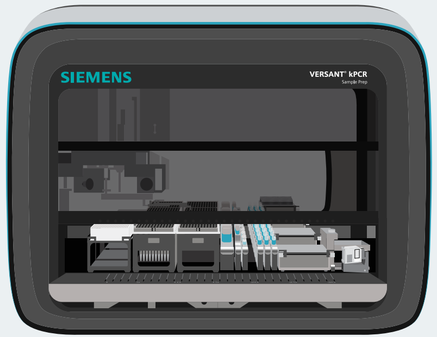
One Solution—More Choice.

VERSANT kPCR Sample Prep with VERSANT MiPLX Software Solution

The VERSANT® kPCR Sample Prep with the VERSANT MiPLX Software Solution brings flexibility to your molecular laboratory with automated sample preparation and PCR set-up. The Siemens Healthcare Diagnostics universal extraction technology provides high-quality nucleic acids from a wide variety of specimen types.

VERSANT kPCR Sample Prep with the VERSANT MiPLX Software Solution



High-quality Nucleic Acids

Siemens' automation and universal extraction technology provides an efficient and standardized approach to delivering high-quality DNA and RNA. Our unique solution enables quality results by isolating nucleic acids for a variety of molecular applications, adding confidence to your molecular laboratory.

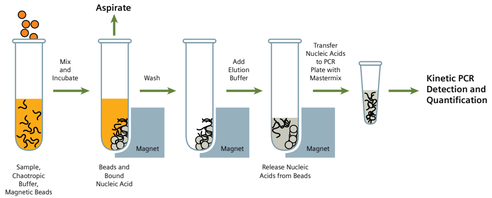
Increased Workflow Efficiency and Laboratory Productivity

Increased ease of use

- Consolidated nucleic acid extractions on one platform using one of two universal reagent kits for both DNA and RNA—for a variety of specimen types and workloads.
- Minimized equipment requirements and concerns about quality control management.
- Fast, easy setup and walkaway operation.
- Up to 96 samples extracted in 3 hours.
- Flexible extraction protocols that enable a variety of sample input and eluate output volumes.
- Primary-tube sampling for a variety of sample tube types and sizes, including:
  - 11–14.5 x 60 mm
  - 14–18 x 100 mm
  - Gel separator tubes
- Tracking of sample ID from primary tube to eluate to increase confidence in results.
- Process surveillance monitoring of all liquid handling and robotic steps.

Optimized workflow

- Multiple specimen types per run.
- Minimal hands-on time.
- Universal DNA and RNA extraction process that supports a wide range of molecular applications.



Universal DNA and RNA extraction protocol

Contamination control[1]

- Air displacement pipetting (ADP).
- Anti-droplet control (ADC) and disposable, filtered pipette tips.
- CO-RE technology (compressed O-ring expansion).

Enhanced reliability[1]

- Accurate liquid delivery with unique total aspiration and dispense monitoring (TADM) technology.
- Homogeneous nanobeads improve reproducibility and recovery.
- Minimal daily maintenance under 10 minutes.

Increased efficiency

- Reduced liquid waste with air-displacement pipetting.
- Minimal inventory requirements and quality control management with only two reagent kits.

References:

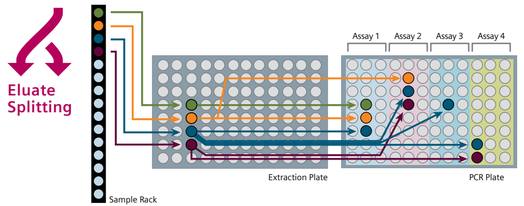
1. ADP, ADC, CO-RE, and TADM are patented, proprietary technologies of Hamilton Company.
2. VERSANT kPCR assays not available for sale in the U.S.

The VERSANT kPCR Sample Prep with the MiPLX Software Solution is a comprehensive and flexible solution for extracting high-quality nucleic acids for molecular diagnostics applications. It provides standardized sample extraction for Siemens' assays,[2] laboratory-developed tests (LDTs), and other manufacturers' assays.

Adding Flexibility. Meeting New Challenges.

Siemens customization program and the VERSANT kPCR Sample Prep with the MiPLX Software provides laboratories added flexibility to meet new challenges in a timely manner. The universal extraction technology and open-channel capabilities allow laboratories to develop and automate their own protocols for the extraction of nucleic acids and PCR assay plate setup.

- Customized dynamic protocols expand your lab's capabilities by enabling consolidation of LDTs and other manufacturers' assays on a single platform using the same workflow.
- One specimen can be split *up to six times* using the eluate-splitting feature to optimize workflow.
- Dynamic Protocols provide the ability to get more information out of a single sample.
- LDTs and other manufacturers' assays can be automated with full system software capabilities, including sample ID tracking.



"The VERSANT kPCR Sample Prep system and reagents provide high-quality nucleic acids from a wide variety of specimens including difficult samples such as stool. In particular, the open channel feature allows us to automate other manufacturers' assays as well as laboratory developed assays. Being able to do this brings workflow improvements to our molecular virology laboratory."

Dr. Rolf Kaiser,
Institute of Virology,
University of Cologne,
Cologne, Germany

Technical Specifications

VERSANT kPCR Sample Prep with the MiPLX Software Solution

Dimensions	924 mm H x 1254 mm W x 1043 mm D (36 in. H x 49 in. W x 41 in. D) (with loading tray and carriers)
Weight	155 kg (342 lb)
System Power Requirements	200–240 V, 50/60 Hz ±5%; 100–120 V, 50/60 Hz ±5%
Environment	18–30°C; 30–80% relative humidity, noncondensing; 0–2000 m altitude
Integrated Computer	Microsoft Windows operating system
External UPS System	100–120 VAC, 1000 VA; 200–240 VAC, 1500 VA

Computer

Dimensions	381 mm H × 140 mm W × 330 mm D (15 in. H × 5.5 in. W × 13 in. D)
Weight	12 kg (26 lb)
Screen	17 in. diagonal; footprint is a 230 mm (9 in.) diameter circle
Voltage and Frequency	100–240 VAC, 50/60 Hz ±5%
Maximum Power Consumption	600 VA

Ordering Information	
Catalog Number	**Description**
10282928	VERSANT kPCR Sample Prep System
10702391	VERSANT kPCR Sample Prep Workstation Kit (includes PC, monitor, keyboard, mouse)
10286026	VERSANT Sample Preparation 1.0 Reagents Kit (Box 1)
10286027	VERSANT Sample Preparation 1.0 Reagents Kit (Box 2)
10629800	VERSANT Sample Preparation 1.2 Reagents (Box 1)
10629801	VERSANT Sample Preparation 1.2 Reagents (Box 2)