



Agilent Protein Sample Prep Workbench Software

Version 3.0

Release Notes

Notices

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Software Revision

Agilent Protein Sample Prep Workbench software version 3.0.0.04.

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Introduction

The Protein Sample Prep Workbench is a user interface and software content package for the Agilent AssayMAP Bravo Platform. This document describes all changes that have been introduced in Protein Sample Prep Workbench v3.0.

Protein Sample Prep Workbench Version 3.0

Content Additions

- **Workflows**
 - <No workflows were added.>
- **New Apps**
 - *On-Cartridge Reaction v1.0* – This app enables automated sample preparation for intact-antibody characterization workflows. It includes a unique *reaction* step that slowly aspirates temperature-controlled reagent through the cartridges.
 - *N-Glycan Sample Prep: RX digestion & InstantPC Labeling* – This automates the digestion, InstantPC labeling, and cleanup sample preparation steps of the N-linked glycan analysis workflow, using ProZyme InstantPC labeling chemistry.
- **New Utilities**
 - *Reagent Transfer v2.0* – This utility is an upgrade to the Reagent Transfer v1.0 utility, that enables the user to transfer samples to non-identical well ranges of the source and destination plates, enables tip transfer at the beginning of the run, and offers a wide range of new liquid handling options that enable more complex and customized transfer processes. (**Note:** Reagent Transfer v1.0 is still available in the Utility Library)

Content Updates

- **Updated Workflows**
 - *Peptide Sample Prep Workflow v2.0* was upgraded to **v2.1**, through the implementation the following changes:
 - i. *In-solution Digestion: Single-Plate v1.0* was upgraded to **v1.1**
 - ii. *Reagent Transfer v1.0* was upgraded to **v2.0**
 - iii. *Syringe Wash v1.0* was upgraded to **v2.0**
 - iv. *Startup/Shutdown v2.0* was upgraded to **v2.1**
 - *Phosphopeptide Enrichment Workflow v2.0* was upgraded to **v2.1**, through the implementation the following changes:
 - i. *In-solution Digestion: Single-Plate v1.0* was upgraded to **v1.1**
 - ii. *Reagent Transfer v1.0* was upgraded to **v2.0**
 - iii. *Syringe Wash v1.0* was upgraded to **v2.0**
 - iv. *Startup/Shutdown v2.0* was upgraded to **v2.1**
 - *Rapid Antibody Digestion Workflow v1.0* was upgraded to **v1.1**, through the implementation the following changes:
 - i. *In-solution Digestion: Single-Plate v1.0* was upgraded to **v1.1**
 - ii. *Reagent Transfer v1.0* was upgraded to **v2.0**
 - iii. *Syringe Wash v1.0* was upgraded to **v2.0**
 - iv. *Startup/Shutdown v2.0* was upgraded to **v2.1**
- **Updated Apps**
 - *In-Solution Digestion: Single-Plate v1.0* was upgraded to **v1.1**. This upgrade adds three additional labware choices for the Sample Plate at deck location 4. These new labware choices consist of labware options that already exist, but that are slightly elevated to accommodate thermal conduction blocks that are placed underneath the labware, to enhance thermal contact with the peltier device. These blocks will be available for purchase shortly after release. The new labware options are as follows:

- i. 96 AbGene U-Bottom Thermal Insert + AbGene 1127, Square Well, Round Bottom
 - ii. 96 Greiner U-Bottom Thermal Insert + Greiner 650201_U-Bottom, Clear PolyPro
 - iii. 96 Greiner V-Bottom Thermal Insert + Greiner 651201, V-Bottom, Clear PolyPro
- ***N-Glycan Sample Prep: RX digestion & InstantAB Labeling v1.0*** was upgraded to **v1.1**: Changes were made to the background image of this app, to address reagent name/recipe changes from ProZyme.
- **Updated Utilities**
 - ***AssayMAP Startup & Shutdown Utility v2.0*** was upgraded to **v2.1**: This upgrade eliminates the need to use the diagnostics menu to initialize the W-Axis, after initial system power-up.
 - ***Syringe Wash v1.0*** was upgraded to **v2.0**: This upgrade enables the user to set up a more complex wash routine consisting of up to six different reservoir-based wash buffers/reagents. It also enables saving wash methods.

Content Removals

- **Workflows**
 - <No workflows were removed.>
- **Apps**
 - <No Apps were removed>
- **Utilities**
 - *Syringe Wash v1.0* – This has been superseded by *Syringe Wash v2.0*. It is possible to replicate any *Syringe Wash v1.0* run using *Syringe Wash v2.0*.

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Issues addressed in v3.0

Number	Summary
TTP23799	User is required to use the diagnostics menu to initialize the W-Axis when running the Startup protocol after initial power up. → Startup/Shutdown v2.1 eliminates the need to use the diagnostics menu during W-Axis initialization.
TTP23800 /24409	The "Run Specified Protocol" button could be clicked multiple times causing multiple instances of the protocol to be queued up in the Runset. → Run buttons now deactivate immediately after they are clicked, preventing the possibility of unintentionally queueing multiple runs of the same protocol.
TTP23801	The AM Wash Syringes task and Wash Tips task do not respond properly to a Retry command if an error occurs during execution. → VWorks 13.1.1 fixes the Retry behavior for the AM Wash Syringes and Wash Tips tasks. There is no longer a risk of head crashes when recovering from errors that occur when the 96AM head is within the 96AM Wash Station.
TTP24311	A reference to an undefined labware entry exists in the In-Solution Digestion: Single-Plate v1.0 protocol... → This problem was corrected in In-Solution Digestion: Single-Plate v1.1
TTP23618	Reagent Transfer form typos → This utility has been upgraded to Reagent Transfer v2.0, and this typo was not carried into the new utility.

Software Compatibility

Automation Workflow Solution	VWorks Software Version
Protein Sample Prep Workbench v1.0	11.4.0.1301
Protein Sample Prep Workbench v2.0	12.2 SP1
Protein Sample Prep Workbench v2.0 SP1	13.1.0
Protein Sample Prep Workbench v3.0	13.1.1.1380

Firmware Compatibility

Instrument	Firmware Version
Agilent Bravo Platform (model numbers: 16050-101, 16050-102, 16050-121, 16050-122)	5.4.7
Agilent Bravo Platform (model numbers: G5562A/G5563A)	4.0.56 (Controller Node), 4.128.23 (Master Node)

Known Issues

Number	Summary
23490	In-Solution Digestion: Single Plate v1.0 Methods do not save properly on some machines until either the 'Load' button, or the 'Restore Defaults' button, has been clicked.

Computer Requirements

If your organization uses a computer other than one configured by Agilent Technologies, make sure the computer meets the following minimum requirements:

- Computer
 - Windows 10 64-bit operating system
 - 2 GHz or faster 32-bit or 64-bit processor, multicore preferred
 - 4 GB RAM
 - 40 GB hard drive capacity with 10 GB free space
 - 1920 x 1080 pixel screen resolution
 - MySQL 5.0 or later (for systems with labware storage devices, such as the Plate Hub Carousel, Labware MiniHub, LiCONiC storage devices, and Cytomat storage devices)
 - Microsoft Internet Explorer 6.0 or Mozilla Firefox 1.0 with JavaScript enabled (required for using the context-sensitive help and knowledge base)
 - Microsoft Excel 2007, 2010, or 2013
 - A PDF viewer, such as Adobe Reader 7.0 (required for opening the user guide PDF files)
- Communications interface using one of the following:
 - Dedicated 10BaseT or faster Ethernet card (two network cards if connecting to your local area network)

Installing the Software and Activating Your License

Before you begin. Verify that you are running the correct version of version of the VWorks software (VWorks v13.1.1.1380). If not, uninstall previous versions and install the correct version before installing the Protein Sample Prep Workbench.

Installing Protein Sample Prep Workbench v3.0

CAUTION: Only trained AssayMAP service providers should conduct Protein Sample Prep Workbench installations and upgrades.

To install the Protein Sample Prep Workbench:

1. Uninstall any previous versions of the Protein Sample Prep Workbench that are running on the computer.
2. **Download or Flash Memory:** Copy the installer file (*Agilent Protein Sample Prep Workbench_3.0.0.04.exe*) onto the computer's desktop. Remove any external storage devices that are connected to the computer, including flash drives and external hard drives. Double-click the installer file to start the installation process, and follow the onscreen instructions.

Optical Disk: Insert the installer disk into the computer optical drive. The software installer should start automatically. If not, manually navigate to the optical drive and then double-click *Agilent Protein Sample Prep Workbench_3.0.0.04.exe*, and follow the onscreen instructions.

3. If a previous version of the Protein Sample Prep Workbench has been installed on this computer, then several historical Device Profiles, Labware Entires, and Liquid Classes could be retained within the registry, even after uninstalling these previous versions. This historical content could prompt a series of overwrite warning messages to appear if newer versions of these items are included in the new installer. In all cases, select the 'Yes' option to overwrite the existing content with the newer version.

CAUTION: When overwriting existing copies of labware definitions, device profiles, or liquid classes, any customizations made to these items will be lost. The device profile, teachpoints and configuration specifics will also be lost. Creating backup copies of this content, before overwriting, is highly recommended.

Where to Find the User Guides

The Protein Sample Prep Workbench user information is available in the following locations:

- *Protein Sample Prep Workbench: Literature Library* – App user guides are available in the Literature Library of the Protein Sample Prep Workbench.
- *Knowledge base.* The help system that contains information about all the Automation Solutions products is available from the Help menu within the VWorks software.
- *PDF files.* The PDF files of the user guides are installed with the VWorks software and are on the software CD that is supplied with the product. A PDF viewer is required to open a user guide in PDF format. You can download a free PDF viewer from the internet. For information about using PDF documents, see the user documentation for the PDF viewer.
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Protein Sample Prep Workbench v3.0: List of Components

The following table lists all Workflow, Apps, and Utilities included in the Protein Sample Prep Workbench v3.0, along with the workbench location of each of the components:

Name	Location(s)	Version
Workflows		
Affinity Purification Workflow	Workflow Library	1.0
Peptide Sample Prep Workflow v2.0	Workflow Library	2.0
Peptide Sample Prep Workflow v1.0	Workflow Library → Peptide Sample Prep Workflow v2.0	1.0
Rapid Antibody Digestion Workflow	Workflow Library	1.0
SISCAPA Workflow v1.0	Workflow Library	1.0
Phosphopeptide Enrichment Workflow v2.0	Workflow Library	2.0
N-Glycan Sample Prep Workflow v2.0	Workflow Library	2.0
Apps		
Affinity Purification v1.0	<ul style="list-style-type: none"> App Library Workflow Library → Affinity Purification Workflow Workflow Library → Peptide Sample Prep Workflow Workflow Library → Rapid Antibody Digestion Workflow Workflow Library → N-Glycan Sample Prep Workflow 	1.0
Fractionation v1.0	<ul style="list-style-type: none"> App Library Workflow Library → Peptide Sample Prep Workflow 	1.0
IMAC Cartridge Customization v1.0	App Library	1.0
Immobilization v1.0	<ul style="list-style-type: none"> App Library Workflow Library → Affinity Purification Workflow 	1.0
In-Solution Digestion: Multi-Plate v1.0	<ul style="list-style-type: none"> App Library Workflow Library → Peptide Sample Prep Workflow v2.0 → Peptide Sample Prep Workflow v1.0 	1.0
Reagent Plate Setup for In-Solution Digestion v1.0	<ul style="list-style-type: none"> App Library → In-Solution Digestion: Multi-Plate v1.0 Workflow Library → Peptide Sample Prep Workflow v2.0 → Peptide Sample Prep Workflow v1.0 	1.0
In-Solution Digestion: Single-Plate v1.0	<ul style="list-style-type: none"> App Library Workflow Library → Peptide Sample Prep Workflow v2.0 Workflow Library → Rapid Antibody Digestion Workflow 	1.1
Normalization v1.0	<ul style="list-style-type: none"> App Library Workflow Library → N-Glycan Sample Prep Workflow 	1.0

On-Cartridge Reaction v1.0	<ul style="list-style-type: none"> • App Library 	1.0
Peptide Cleanup v2.0	<ul style="list-style-type: none"> • App Library • Workflow Library → Rapid Antibody Digestion Workflow • Workflow Library → Peptide Sample Prep Workflow • Workflow Library → Phosphopeptide Enrichment Workflow 	2.0
Phosphopeptide Enrichment v2.0	<ul style="list-style-type: none"> • App Library • Workflow Library → Phosphopeptide Enrichment Workflow 	2.0
Protein Cleanup v1.0	<ul style="list-style-type: none"> • App Library • Workflow Library → Rapid Antibody Digestion Workflow 	1.0
Antibody Purification v1.0	<ul style="list-style-type: none"> • App Library 	1.0
Peptide Cleanup v1.1	<ul style="list-style-type: none"> • App Library • Workflow Library → Peptide Sample Prep Workflow v2.0 → Peptide Sample Prep Workflow v1.0 	1.1
N-Glycan Sample Prep: RX digestion & 2-AB labeling	Workflow Library → N-Glycan Sample Prep Workflow	1.0
N-Glycan Sample Prep: RX digestion & APTS labeling with APTS cleanup	Workflow Library → N-Glycan Sample Prep Workflow	1.1
N-Glycan Sample Prep: RX digestion & InstantAB labeling	Workflow Library → N-Glycan Sample Prep Workflow	1.1
N-Glycan Sample Prep: RX digestion & InstantPC Labeling	Workflow Library → N-Glycan Sample Prep Workflow	1.0
SISCAPA Stage 1 – Plasma Digestion	Workflow Library → SISCAPA Workflow	1.0
SISCAPA Stage 2 – SISCAPA Enrichment	Workflow Library → SISCAPA Workflow	1.0
SISCAPA Stage 3 – SISCAPA Wash & Elution	Workflow Library → SISCAPA Workflow	1.0
Utilities		
Cartridge Transfer v1.0	<ul style="list-style-type: none"> • Utility Library • <Included in all Workflows> 	1.0
Pipette Tip Transfer v1.0	<ul style="list-style-type: none"> • Utility Library • Workflow Library → Peptide Sample Prep Workflow v2.0 • Workflow Library → Rapid Antibody Digestion Workflow • Workflow Library → Phosphopeptide Enrichment Workflow • Workflow Library → N-Glycan Sample Prep Workflow 	1.0
Reagent Aliquot v1.0	<ul style="list-style-type: none"> • Utility Library • Workflow Library → Peptide Sample Prep Workflow v2.0 • Workflow Library → Rapid Antibody Digestion Workflow • Workflow Library → Phosphopeptide Enrichment Workflow • Workflow Library → N-Glycan Sample Prep Workflow 	1.0
Reagent Transfer v2.0	<ul style="list-style-type: none"> • Utility Library • Workflow Library → Peptide Sample Prep Workflow v2.0 	2.0

	<ul style="list-style-type: none"> • Workflow Library → Rapid Antibody Digestion Workflow • Workflow Library → Phosphopeptide Enrichment Workflow • Workflow Library → N-Glycan Sample Prep Workflow 	
Reagent Transfer v1.0	<ul style="list-style-type: none"> • Utility Library 	1.0
Sample Plate Transfer v1.0	<ul style="list-style-type: none"> • Utility Library • Workflow Library → Affinity Purification Workflow • Workflow Library → Peptide Sample Prep Workflow v2.0 → Peptide Sample Prep Workflow v1.0 	1.0
Single Liquid Addition v1.0	<ul style="list-style-type: none"> • Utility Library • Workflow Library → Affinity Purification Workflow • Workflow Library → Peptide Sample Prep Workflow v2.0 → Peptide Sample Prep Workflow v1.0 	1.0
Syringe Test v1.1	<ul style="list-style-type: none"> • Utility Library 	1.1
Syringe Wash v2.0	<ul style="list-style-type: none"> • Utility Library • <Included in all Workflows> 	2.0
System Startup/Shutdown v2.0	<ul style="list-style-type: none"> • Utility Library • Workflow Library → Peptide Sample Prep Workflow v2.0 • Workflow Library → Rapid Antibody Digestion Workflow • Workflow Library → Phosphopeptide Enrichment Workflow • Workflow Library → N-Glycan Sample Prep Workflow 	2.0
SISCAPA Tip Transfer Utility	Workflow Library → SISCAPA Workflow	1.0

Additional program licensing information:

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