

**Microbix Quality Assessment Products** (QAPs™) are whole-process, external quality controls that are designed to resemble patient specimens. These products are formulated with native pathogens or protected synthetic whole-genome targets that are inactivated to meet clinical laboratory biosafety requirements. Microbix external quality controls monitor the entire diagnostic workflow, including

preanalytical patient sample collection and processing steps, lysis, extraction, and purification (if applicable), target detection, and analysis. All products are commutable, cross-platform compatible, and have verified performance on leading IVD assays. Microbix offers swab-based and liquid-based QAPs™ formats to meet a variety of end-user needs.



**Properties of Swab QAPs™**

- Optimal for Point of Care (POC) near-patient testing workflows
- Stable for up to 2 years when stored at 2-30°C
- Desiccated on a Copan FLOQSwab®
- Can be eluted in your choice of media
- Preferable storage conditions for distribution/supply chain logistics
- Excellent lot-to-lot reproducibility

**Properties of Liquid QAPs™**

- Optimal for high-throughput central laboratory workflows
- Stable for up to 2 years when stored at 2-8°C
- Volume: 0.5 -1.0mL
- Excellent lot-to-lot reproducibility and homogeneity

**Maximize your UP TIME:**  
**our controls help detect workflow performance issues before they affect your results**



RED<sup>controls</sup>  
RED<sup>FLOQ</sup>



**REDx™** products are unassayed controls that can be used for ongoing external quality control, benchmarking laboratory testing performance, operator training & competency, and end-to-end workflow evaluation.

PROCEED<sup>controls</sup>  
PROCEED<sup>FLOQ</sup>



**PROCEEDx™** products are used for assay verification/validation, training, and R&D purposes. Products are for **RESEARCH USE ONLY!**

PTD<sup>controls</sup>



**PTDx™** products are used as challenge samples in laboratory Proficiency Testing and External Quality Assessment programs.

ONBOARD<sup>controls</sup>



**ONBOARDx™** are all-encompassing sample kits for assay verification/validation, instrument qualification and operator training. Kits contain positive and negative samples from the **PROCEEDx™** product line. Products are for **RESEARCH USE ONLY!**

Copan Partnership



## PANEL 1: SARS Complete Panel



### SARS-CoV-2 Swab QAPs™

- » Stable for 2 years when stored at 2-30°C
- » SARS-CoV-2 Variants of Concern products are designed with all clade-specific SNPs, deletions, and insertions present

Products	PTDx™	PROCEEDx™FLOQ®	REDx™FLOQ®	Assay Compatibility
<b>Single-Target Products</b>				
SARS-CoV-2 Positive Swab	PT-S-19-01	VP-S-19-01	RED-S-19-01	MDx
Respiratory NAAT SARS-CoV-2 Positive Swab (Ultra Low)	PT-S-19-L1	VP-S-19-L1	–	MDx
SARS-CoV-2 Ag Positive Swab	PT-S-19-02	VP-S-19-02	RED-S-19-02	Immuno
SARS-CoV-2 B.1.1.7 Positive Swab	PT-S-19-03	VP-S-19-03	RED-S-19-03	MDx
SARS-CoV-2 B.1.351 Positive Swab	PT-S-19-04	VP-S-19-04	RED-S-19-04	MDx
SARS-CoV-2 P.1 Positive Swab	PT-S-19-05	VP-S-19-05	RED-S-19-05	MDx
SARS-CoV-2 B.1.617 Positive Swab	PT-S-19-06	VP-S-19-06	RED-S-19-06	MDx
SARS-CoV-2 B.1.1.529 Positive Swab	PT-S-19-07	VP-S-19-07	RED-S-19-07	MDx
<b>Multi-Target Products</b>				
SARS-CoV-2/FluA&B/RSV Positive Swab	PT-S-19-M1	VP-S-19-M1	RED-S-19-M1	MDx
Respiratory NAAT Influenza A & SARS-CoV-2 Positive Swab	PT-S-13-M4 <sup>1</sup>	VP-S-13-M4 <sup>1</sup>	RED-S-13-M4 <sup>1</sup>	MDx
Respiratory NAAT Influenza B & SARS-CoV-2 Positive Swab	PT-S-14-M3 <sup>1</sup>	VP-S-14-M3 <sup>1</sup>	RED-S-14-M3 <sup>1</sup>	MDx
Respiratory NAAT RSV & SARS-CoV-2 Positive Swab	PT-S-07-M2 <sup>1</sup>	VP-S-07-M2 <sup>1</sup>	RED-S-07-M2 <sup>1</sup>	MDx
<b>Negative-Target Products</b>				
SARS-CoV-2 Negative Swab (IVD) NAAT Negative Swab (RUO)	PT-S-99-M4	VP-S-99-M4	RED-S-99-M4	MDx
Respiratory Negative Swab (IVD) Negative Swab (RUO)	PT-S-99-01	VP-S-99-01	RED-S-99-01	Immuno

<sup>1</sup> Products are only for sale in Canada and the United States

### SARS-CoV-2 Liquid QAPs™

- » Stable for 2 years when stored at 2-8°C; 0.5 mL volume

Products	PTDx™	PROCEEDx™	REDx™	Assay Compatibility
<b>Single-Target Products</b>				
SARS-CoV-2 Positive Sample	PT-19-01	VP-19-01	RED-19-01	MDx
<b>Negative-Target Products</b>				
SARS-CoV-2 Negative Sample	PT-99-M3	VP-99-M3	RED-99-M3	MDx

**PANEL 2:**  
**Respiratory Viral Panel**



**Respiratory Viral Swab QAPs™**

» Swab formulations are stable for 2 years when stored at 2-30°C

Products	PTDx™	PROCEEDx™FLOQ®	REDx™FLOQ®	Assay Compatibility
<b>Single-Target Products</b>				
Influenza A Positive Swab	PT-S-13-01	VP-S-13-01	RED-S-13-01 <sup>1</sup>	MDx, Immuno
Influenza A NAAT Positive Swab	PT-S-13-M1	VP-S-13-M1	RED-S-13-M1 <sup>1</sup>	MDx
Influenza A NAAT Positive Swab (Low Level)	PT-S-13-M1L	VP-S-13- M1L	RED-S-13- M1L <sup>1</sup>	MDx
Influenza A NAAT Positive Swab (Ultra Low)	PT-S-13-L1	VP-S-13-L1	–	MDx
Influenza B Positive Swab	PT-S-14-01	VP-S-14-01	RED-S-14-01 <sup>1</sup>	MDx, Immuno
Influenza B NAAT Positive Swab	PT-S-14-M1	VP-S-14-M1	RED-S-14-M1 <sup>1</sup>	MDx
Influenza B NAAT Positive Swab (Low Level)	PT-S-14- M1L	VP-S-14- M1L	RED-S-14- M1L <sup>1</sup>	MDx
Influenza B NAAT Positive Swab (Ultra Low)	PT-S-14-L1	VP-S-14-L1	–	MDx
RSV Positive Swab	PT-S-07-01	VP-S-07-01	RED-S-07-01 <sup>1</sup>	MDx, Immuno
RSV NAAT Positive Swab	PT-S-07-M1	VP-S-07-M1	RED-S-07-M1 <sup>1</sup>	MDx
RSV NAAT Positive Swab (Low Level)	PT-S-07-M1L	VP-S-07- M1L	RED-S-07- M1L <sup>1</sup>	MDx
Respiratory NAAT RSV Positive Swab (Ultra Low)	PT-S-07-L1	VP-S-07-L1	–	MDx
<b>Multi-Target Products</b>				
Respiratory NAAT Influenza A and Influenza B Positive Swab	PT-S-13-M2	VP-S-13-M2	RED-S-13-M2 <sup>1</sup>	MDx
Respiratory NAAT Influenza A and RSV Positive Swab	PT-S-13-M3	VP-S-13-M3	RED-S-13-M3 <sup>1</sup>	MDx
Respiratory NAAT Influenza A and SARS-CoV-2 Positive Swab	PT-S-13-M4	VP-S-13-M4	RED-S-13-M4 <sup>1</sup>	MDx
Respiratory NAAT Influenza B and RSV Positive Swab	PT-S-14-M2	VP-S-14-M2	RED-S-14-M2 <sup>1</sup>	MDx
Respiratory NAAT Influenza B and SARS-CoV-2 Positive Swab	PT-S-14-M3	VP-S-14-M3	RED-S-14-M3 <sup>1</sup>	MDx
Respiratory NAAT RSV and SARS-CoV-2 Positive Swab	PT-S-07-M2	VP-S-07-M2	RED-S-07-M2 <sup>1</sup>	MDx
<b>Negative-Target Products</b>				
Respiratory Negative Swab (IVD) Negative Swab (RUO)	PT-S-99-01	VP-S-99-01	RED-S-99-01	Immuno
SARS-CoV-2 Negative Swab (IVD) NAAT Negative Swab (RUO)	PT-S-99-M4	VP-S-99-M4	RED-S-99-M4	MDx

<sup>1</sup> Products are only for sale in Canada and the United States

PANEL 2:  
Respiratory Viral Panel



**Respiratory Viral Liquid QAPs™**

» Stable for up to 2 years when stored at 2-8°C; 1.0 mL volume

Products	PTDx™	PROCEEDx™	REDx™	Assay Compatibility
<b>Single-Target Products</b>				
Influenza A Positive Sample	PT-13-01	VP-13-01	RED-13-01 <sup>2</sup>	MDx, Immuno
Influenza B Positive Sample	PT-14-01	VP-14-01	RED-14-01 <sup>2</sup>	MDx, Immuno
Respiratory Syncytial Virus (RSV) Positive Sample	PT-07-01	VP-07-01	RED-07-01 <sup>2</sup>	MDx, Immuno
Adenovirus Positive Sample	PT-15-01	VP-15-01	–	MDx <sup>1</sup> , Immuno
Parainfluenza 3 Positive Sample	PT-10-M1	VP-10-M1	–	MDx
<b>Multi-Target Products</b>				
Influenza A + B Positive Sample	PT-13-02	VP-13-02	RED-13-02 <sup>2</sup>	MDx, Immuno
Influenza A + RSV Positive Sample	PT-13-03	VP-13-03	–	MDx, Immuno
Influenza A + Adenovirus Positive Sample	PT-13-04	VP-13-04	–	MDx <sup>1</sup> , Immuno
Influenza A + Rotavirus Positive Sample	PT-13-05	VP-13-05	–	MDx <sup>1</sup> , Immuno
Influenza B + RSV Positive Sample	PT-14-02	VP-14-02	–	MDx <sup>1</sup> , Immuno
Influenza B + Adenovirus Positive Sample	PT-14-03	VP-14-03	–	MDx <sup>1</sup> , Immuno
Influenza B + Rotavirus Positive Sample	PT-14-04	VP-14-04	–	MDx <sup>1</sup> , Immuno
Adenovirus + RSV Positive Sample	PT-07-02	VP-07-02	–	MDx <sup>1</sup> , Immuno
RSV+ Rotavirus Positive Sample	PT-07-03	VP-07-03	–	MDx <sup>1</sup> , Immuno
Adenovirus + Rotavirus Sample	PT-15-02	VP-15-02	–	MDx <sup>1</sup> , Immuno
<b>Negative-Target Products</b>				
Negative Sample	PT-99-01	VP-99-01	–	Immuno
Negative Sample (MDx)	PT-99-M2	VP-99-M2	–	MDx, Immuno

<sup>1</sup> Products are QC-released with immunoassays but are also compatible with molecular assays

<sup>2</sup> Products are only for sale in Canada and the United States

**PANEL 3:**  
**Group A Streptococcus Panel**



» Stable for 2 years when stored at 2-30°C

Products	PTDx™	PROCEEDx™FLOQ®	REDx™FLOQ®	Assay Compatibility
<b>Single-Target Products</b>				
Group A Streptococcus Positive Swab (M1) <i>Low Level</i>	PT-S-70-M1	VP-S-70-M1	RED-S-70-M1 <sup>1</sup>	MDx
Group A Streptococcus Positive Swab (M2) <i>Medium Level</i>	PT-S-70-M2	VP-S-70-M2	RED-S-70-M2 <sup>1</sup>	MDx
Group A Streptococcus Positive Swab <i>High Level</i>	PT-S-70-01	VP-S-70-01	RED-S-70-01 <sup>1</sup>	Immuno
<b>Negative-Target Products</b>				
SARS-CoV-2 Negative Swab (IVD) <sup>2</sup> NAAT Negative Swab (RUO)	PT-S-99-M4	VP-S-99-M4	RED-S-99-M4	MDx
Respiratory Negative Swab (IVD) Negative Swab (RUO)	PT-S-99-01	VP-S-99-01	RED-S-99-01	Immuno

<sup>1</sup> Products are only for sale in Canada and the United States

<sup>2</sup> Products are formulated with human cells desiccated on a swab and can be used in the context of GAS testing

## PANEL 4: HPV Panel



### HPV Liquid QAPs™

- » Stable for 2 years when stored at 2-8°C; 1.0 mL volume
- » Prepared in HOLOGIC® ThinPrep® PreservCyt®
- » Dedicated low risk/non-oncogenic HPV 67 Positive sample to evaluate test specificity and rule out cross-reactivity
- » Formulated with inactivated whole-genome samples that contain all common assay targets (E1, E6, E7, L1), episomal and integrated viral DNA, viral RNA, proteins, and human DNA

Products	PTDx™	PROCEEDx™	REDx™	Assay Compatibility
<b>Single-Target Products</b>				
HPV 16 Positive Sample	PT-62-16	VP-62-16	RED-62-16	MDx
HPV 18 Positive Sample	PT-62-18	VP-62-18	RED-62-18	MDx
HPV 31 Positive Sample	PT-62-31	VP-62-31	RED-62-31	MDx
HPV 33 Positive Sample	PT-62-33	VP-62-33	RED-62-33	MDx
HPV 39 Positive Sample	PT-62-39	VP-62-39	RED-62-39	MDx
HPV 45 Positive Sample	PT-62-45	VP-62-45	RED-62-45	MDx
HPV 51 Positive Sample	PT-62-51	VP-62-51	RED-62-51	MDx
HPV 52 Positive Sample	PT-62-52	VP-62-52	RED-62-52	MDx
HPV 66 Positive Sample	PT-62-66	VP-62-66	RED-62-66	MDx
High-risk HPV Negative (HPV 67) Sample	PT-62-67	VP-62-67	RED-62-67	MDx
<b>Multi-Target Products</b>				
HPV 16/18/45 Positive Sample	PT-62-M1	VP-62-M1	RED-62-M1	MDx
HPV 31/33/66 Positive Sample	PT-62-M2	VP-62-M2	RED-62-M2	MDx
HPV 39/51/52 Positive Sample	PT-62-M3	VP-62-M3	RED-62-M3	MDx
<b>Negative-Target Products</b>				
STI Negative Sample (IVD) Negative Sample (RUO)	PT-99-M1	VP-99-M1	RED-99-M1	MDx

### HPV Swab QAPs™

- » Stable for 2 years when stored at 2-30°C
- » Formulated with inactivated whole-genome samples that contain all common assay targets (E1, E6, E7, L1), episomal and integrated viral DNA, viral RNA, proteins, and human DNA

Products	PTDx™	PROCEEDx™FLOQ®	REDx™FLOQ®	Assay Compatibility
<b>Single-Target Products</b>				
HPV 16 Positive Swab	PT-S-62-16	VP-S-62-16	Coming soon	MDx
HPV 18 Positive Swab	PT-S-62-18	VP-S-62-18	Coming soon	MDx
HPV 45 Positive Swab	PT-S-62-45	VP-S-62-45	Coming soon	MDx
<b>Multi-Target Products</b>				
HPV 16/18/45 Positive Swab	PT-S-62-M1	VP-S-62-M1	Coming soon	MDx
HPV 31/33/66 Positive Swab	PT-S-62-M2	VP-S-62-M2	Coming soon	MDx
HPV 39/51/52 Positive Swab	PT-S-62-M3	VP-S-62-M3	Coming soon	MDx
<b>Negative-Target Products</b>				
NAAT Negative Swab (RUO)	PT-S-99-M4	VP-S-99-M4	Coming soon	MDx

PANEL 5:

# Genital Ulcer Disease Panel



## Genital Ulcer Disease Swab QAPs™

» Stable for up to 2 years when stored at 2-30°C

Products	PTDx™	PROCEEDx™ FLOQ®	REDx™ FLOQ®	Assay Compatibility
<b>Single-Target Products</b>				
HSV 1 Positive Swab	PT-S-02-01	VP-S-02-01	RED-S-02-01 <sup>1</sup>	MDx
HSV 1 Positive Swab (Low Level)	PT-S-02-L1	VP-S-02-L1	–	MDx
HSV 2 Positive Swab	PT-S-23-01	VP-S-23-01	RED-S-23-01 <sup>1</sup>	MDx
HSV 2 Positive Swab (Low Level)	PT-S-23-L1	VP-S-23-L1	–	MDx
<i>T. pallidum</i> Positive Swab	PT-S-80-01	VP-S-80-01	RED-S-80-01 <sup>1</sup>	MDx
<i>T. pallidum</i> 47kDa Positive Swab	PT-S-80-02	VP-S-80-02	–	MDx
Varicella Zoster Virus Positive Swab	PT-S-03-01	VP-S-03-01	RED-S-03-01 <sup>1</sup>	MDx
Varicella Zoster Virus Positive Swab (Low Level)	PT-S-03-L1	VP-S-03-L1	–	MDx
Monkeypox West African Positive Swab	PT-S-81-02	VP-S-81-02	Coming soon	MDx
<b>Multi-Target Products</b>				
HSV 1 and HSV 2 Positive Swab	PT-S-02-M2	VP-S-02-M2	RED-S-02-M2 <sup>1</sup>	MDx
HSV 1 and VZV Positive Swab	PT-S-02-M3	VP-S-02-M3	RED-S-02-M3 <sup>1</sup>	MDx
HSV 1 and <i>T. pallidum</i> Positive Swab	PT-S-02-M4	VP-S-02-M4	RED-S-02-M4 <sup>1</sup>	MDx
HSV 2 and VZV Positive Swab	PT-S-23-M2	VP-S-23-M2	RED-S-23-M2 <sup>1</sup>	MDx
HSV 2 and <i>T. pallidum</i> Positive Swab	PT-S-23-M3	VP-S-23-M3	RED-S-23-M3 <sup>1</sup>	MDx
<i>T. pallidum</i> and VZV Positive Swab	PT-S-80-M2	VP-S-80-M2	RED-S-80-M2 <sup>1</sup>	MDx
HSV1/HSV2/VZV Positive Swab	PT-S-02-M5	VP-S-02-M5	RED-S-02-M5 <sup>1</sup>	MDx
HSV1&2/VZV/ <i>T. pallidum</i> Positive Swab	PT-S-03-M1	VP-S-03-M1	RED-S-03-M1	MDx
<b>Negative-Target Products</b>				
SARS-CoV-2 Negative Swab (IVD) <sup>2</sup> NAAT Negative Swab (RUO)	PT-S-99-M4	VP-S-99-M4	RED-S-99-M4	MDx

<sup>1</sup>Products are only for sale in Canada and the United States <sup>2</sup>Products are formulated with human cells desiccated on a swab and can be used in the context of Genital Ulcer Disease testing

## Genital Ulcer Disease Liquid QAPs™

» Stable for 2 years when stored at 2-8°C; 1mL volume

Products	PTDx™	PROCEEDx™	REDx™	Assay Compatibility
<b>Single-Target Products</b>				
HSV 1 Positive Sample	PT-02-M1	VP-02-M1	RED-02-M1 <sup>2</sup>	MDx, Immuno <sup>1</sup>
HSV 2 Positive Sample	PT-23-M1	VP-23-M1	RED-23-M1 <sup>2</sup>	MDx, Immuno <sup>1</sup>
<b>Multi-Target Products</b>				
HSV 1 and HSV 2 Positive	PT-02-M2	VP-02-M2	–	MDx, Immuno <sup>1</sup>
<b>Negative-Target Products</b>				
STI Negative	PT-99-M1	VP-99-M1	RED-99-M1	MDx

<sup>1</sup>Products are QC-released with molecular assays but are also compatible with immunoassays <sup>2</sup>Products are only for sale in Canada and the United States



## PANEL 6: STI Panel



### STI Swab QAPs™

» Stable for 2 years when stored at 2-30°C

Products	PTDx™	PROCEEDx™ FLOQ®	REDx™ FLOQ®	Assay Compatibility
<b>Single-Target Products</b>				
<i>Chlamydia trachomatis</i> Positive Swab	PT-S-12-M1	VP-S-12-M1	RED-S-12-M1 <sup>1</sup>	MDx
<i>Neisseria gonorrhoeae</i> Positive Swab	PT-S-17-M1	VP-S-17-M1	RED-S-17-M1 <sup>1</sup>	MDx
<i>Trichomonas vaginalis</i> Positive Swab	PT-S-61-M1	VP-S-61-M1	RED-S-61-M1 <sup>1</sup>	MDx
<i>Mycoplasma genitalium</i> Positive Swab	PT-S-63-M1	VP-S-63-M1	RED-S-63-M1 <sup>1</sup>	MDx
<i>M. genitalium</i> A2059G Positive Swab	PT-S-63-02	VP-S-63-02	RED-S-63-02	MDx
<i>M. genitalium</i> A2058G Positive Swab	PT-S-63-03	VP-S-63-03	RED-S-63-03	MDx
<i>M. genitalium</i> A2059C Positive Swab	PT-S-63-04	VP-S-63-04	RED-S-63-04	MDx
<i>M. genitalium</i> A2058T Positive Swab	PT-S-63-05	VP-S-63-05	RED-S-63-05	MDx
<i>M. genitalium</i> A2058C Positive Swab	PT-S-63-06	VP-S-63-06	RED-S-63-06	MDx
<b>Multi-Target Products</b>				
<i>Chlamydia trachomatis</i> + <i>Neisseria gonorrhoeae</i> Positive Swab	PT-S-12-M2	VP-S-12-M2	RED-S-12-M2 <sup>1</sup>	MDx
<i>Trichomonas vaginalis</i> + <i>Mycoplasma genitalium</i> Positive Swab	PT-S-61-M2	VP-S-61-M2	RED-S-61-M2 <sup>1</sup>	MDx
CT/NG/TV Positive Swab	PT-S-12-M4	VP-S-12-M4	RED-S-12-M4 <sup>1</sup>	MDx
CT/NG/TV/MG Positive Swab	PT-S-12-M5	VP-S-12-M5	RED-S-12-M5 <sup>1</sup>	MDx
<b>Negative-Target Products</b>				
SARS-CoV-2 Negative Swab (IVD) <sup>2</sup> NAAT Negative Swab (RUO)	PT-S-99-M4	VP-S-99-M4	RED-S-99-M4	MDx

<sup>1</sup> Products are only for sale in Canada and the United States <sup>2</sup> Products are formulated with human cells desiccated on a swab and can be used in the context of STI testing

### STI Liquid QAPs™

» Stable for up to 2 years when stored at 2-8°C; 1.0 mL volume

Products	PTDx™	PROCEEDx™	REDx™	Assay Compatibility
<b>Single-Target Products</b>				
<i>Chlamydia trachomatis</i> Positive Sample (MDx)	PT-12-M1	VP-12-M1	RED-12-M1 <sup>1</sup>	MDx
<i>Chlamydia trachomatis</i> Positive Sample	PT-12-01	VP-12-01	RED-12-01 <sup>1</sup>	MDx, Immuno
<i>Neisseria gonorrhoeae</i> Positive Sample	PT-17-M1	VP-17-M1	RED-17-M1 <sup>1</sup>	MDx
<i>Trichomonas vaginalis</i> Positive Sample	PT-61-01	VP-61-01	RED-61-01 <sup>1</sup>	MDx, Immuno
<i>Mycoplasma genitalium</i> Positive Sample	PT-63-01	VP-63-01	RED-63-01	MDx
<b>Multi-Target Products</b>				
<i>Chlamydia trachomatis</i> + <i>Neisseria gonorrhoeae</i> Positive Sample	PT-12-M2	VP-12-M2	RED-12-M2 <sup>1</sup>	MDx
<b>Negative-Target Products</b>				
STI Negative	PT-99-M1	VP-99-M1	RED-99-M1	MDx

<sup>1</sup> Products are only for sale in Canada and the United States

## PANEL 7: Gastrointestinal Panel



### Gastrointestinal Swab QAPs™

» Stable for up to 2 years when stored at 2-30°C

Products	PTDx™	PROCEEDx™ FLOQ®	REDx™ FLOQ®	Assay Compatibility
<b>Single-Target Products</b>				
<i>C. difficile</i> GDH Positive Swab	PT-S-39-01	VP-S-39-01	–	Immuno
Campylobacter OMP Positive Swab	PT-S-40-01	VP-S-40-01	–	Immuno
<i>H. pylori</i> Positive Swab	PT-S-27-01	VP-S-27-01	Coming soon	Immuno
<b>Multi-Target Products</b>				
<i>C. difficile</i> GDH/Toxin A/ Toxin B Positive Swab	PT-S-39-02	VP-S-39-02	–	Immuno
<b>Negative-Target Products</b>				
NAAT Negative Swab (RUO)	PT-S-99-M4	VP-S-99-M4	Coming soon	MDx
Negative Swab (RUO)	PT-S-99-01	VP-S-99-01	Coming soon	Immuno

### Gastrointestinal Liquid QAPs™

» Stable for 1+ years when stored at 2-8°C

» 1.0 mL volume (Rotavirus), 0.5 mL volume (all other QAPs™)

Products	PTDx™	PROCEEDx™	REDx™	Assay Compatibility
<b>Single-Target Products</b>				
<i>Cryptosporidium parvum</i> Positive Sample	PT-37-01	VP-37-01	RED-37-01 <sup>1</sup>	MDx <sup>2</sup> , Immuno
<i>Giardia lamblia</i> Positive Sample	PT-38-01	VP-38-01	RED-38-01 <sup>1</sup>	MDx <sup>2</sup> , Immuno
Rotavirus Positive Sample	PT-35-01	VP-35-01	RED-35-01 <sup>1</sup>	MDx <sup>2</sup> , Immuno
<b>Multi-Target Products</b>				
<i>Cryptosporidium parvum</i> + <i>Giardia lamblia</i> Positive Sample	PT-37-02	VP-37-02	RED-37-02 <sup>1</sup>	MDx <sup>2</sup> , Immuno
<b>Negative-Target Products</b>				
Negative Sample	PT-99-01	VP-99-01	–	MDx, Immuno

<sup>1</sup> Products are only for sale in Canada and the United States

<sup>2</sup> Products are QC-released with immunoassays but are also compatible with molecular assays

PANEL 8:  
Vaginal Infection Panel



» Stable for 2 years when stored at 2-30°C

Products	PTD <sup>x</sup> <sup>TM</sup>	PROCEED <sup>x</sup> <sup>TM</sup> FLOQ <sup>®</sup>	RED <sup>x</sup> <sup>TM</sup> FLOQ <sup>®</sup>	Assay Compatibility
<b>Multi-Target Products</b>				
Candida albicans/Candida glabrata/ Candida krusei Positive Swab	–	VP-S-102-M2	Coming soon	MDx
Bacterial Vaginosis Panel Positive Swab <sup>1</sup>	–	VP-S-105-M1	Coming soon	MDx
<b>Negative-Target Products</b>				
NAAT Negative Swab (RUO) <sup>2</sup>	PT-S-99-M4	VP-S-99-M4	–	MDx

<sup>1</sup> Product is formulated with inactivated Gardnerella vaginalis, Atopobium vaginae, Megaspheara 1, BVAB2, Lactobacillus crispatus, Lactobacillus jensenii, Trichomonas vaginalis, and human cells

<sup>2</sup>Products are formulated with human cells desiccated on a swab and can be used in the context of vaginal infection testing

PANEL 9:  
ONBOARDx™ Kits



Kit Catalogue Number	Kit Components <b>ONBOARDx™</b>	Assay Compatibility
<b>Respiratory ONBOARDx™ Kits</b>		
ONBOARDx™FLOQ® SARS-COV-2 Swab Kit (RUO) <b>VP-SK-COV2-01</b>	PROCEEDx™ FLOQ® SARS-COV-2 Positive swab <b>x8</b> PROCEEDx™ FLOQ® NAAT Negative Swab <b>x4</b>	MDx
ONBOARDx™FLOQ® RVP Swab Kit (RUO) <b>VP-SK-RVP-01</b>	PROCEEDx™FLOQ® SARS-CoV-2/Flu A&B/RSV Positive swab <b>x8</b> PROCEEDx™ FLOQ® Negative swab <b>x16</b>	MDx
ONBOARDx™FLOQ® SARS-CoV-2 Variant Swab Kit (RUO) <b>VP-SK-CVAR-01</b>	PROCEEDx™ FLOQ® SARS-COV-2 B.1.1.7 Positive swab <b>x3</b> PROCEEDx™ FLOQ® SARS-COV-2 B.1.351 Positive swab <b>x3</b> PROCEEDx™ FLOQ® SARS-COV-2 P.1 Positive swab <b>x3</b> PROCEEDx™ FLOQ® SARS-COV-2 Positive swab <b>x3</b>	MDx
ONBOARDx™FLOQ® SARS-CoV-2 Variant Swab Kit (RUO) <b>VP-SK-CVAR-02</b>	PROCEEDx™ FLOQ® SARS-COV-2 B.1.1.7 Positive swab <b>x3</b> PROCEEDx™ FLOQ® SARS-COV-2 B.1.351 Positive swab <b>x3</b> PROCEEDx™ FLOQ® SARS-COV-2 P.1 Positive swab <b>x3</b> PROCEEDx™ FLOQ® SARS-COV-2 B.1.617 Positive swab <b>x3</b> PROCEEDx™ FLOQ® SARS-COV-2 Positive swab <b>x3</b>	MDx
ONBOARDx™FLOQ® Respiratory Swab Kit (RUO) <b>VP-SK-RESP-01</b>	PROCEEDx™ FLOQ® SARS-CoV-2 Positive swab <b>x3</b> PROCEEDx™ FLOQ® Influenza A Positive swab <b>x3</b> PROCEEDx™ FLOQ® Influenza B Positive swab <b>x3</b> PROCEEDx™ FLOQ® RSV Positive swab <b>x3</b>	MDx
ONBOARDx™FLOQ® Respiratory Swab Kit (RUO) <b>VP-SK-RESP-02</b>	PROCEEDx™FLOQ® Respiratory SARS-CoV-2 Positive swab <b>x15</b> PROCEEDx™FLOQ® Respiratory NAAT RSV Positive swab <b>x15</b> PROCEEDx™FLOQ® Respiratory NAAT Influenza A Positive swab <b>x15</b> PROCEEDx™FLOQ® Respiratory NAAT Influenza B Positive swab <b>x15</b>	MDx
ONBOARDx™FLOQ® RVP Swab Kit (RUO) <b>VP-SK-RVP-02</b>	PROCEEDx™FLOQ® Respiratory NAAT SARS-CoV-2 Positive swab <b>x5</b> (Ultra Low) PROCEEDx™FLOQ® Respiratory NAAT RSV Positive swab <b>x5</b> (Ultra Low) PROCEEDx™FLOQ® Respiratory NAAT Influenza A Positive swab <b>x5</b> (Ultra Low) PROCEEDx™FLOQ® Respiratory NAAT Influenza B Positive swab <b>x5</b> (Ultra Low) PROCEEDx™FLOQ® NAAT Swab Negative Sample <b>x4</b>	MDx
ONBOARDx™FLOQ® SARS-CoV-2 Antigen Swab Kit (RUO) <b>VP-SK-COV2AG-01</b>	PROCEEDx™ FLOQ® SARS-COV-2 Antigen Positive swab <b>x10</b> PROCEEDx™ FLOQ® Negative swab <b>x2</b>	Immuno
ONBOARDx™FLOQ® SARS-CoV-2 Antigen Swab Kit (RUO) <b>VP-SK-COV2AG-02</b>	PROCEEDx™ FLOQ® SARS-COV-2 Antigen Positive swab <b>x15</b> PROCEEDx™ FLOQ® Negative swab <b>x5</b>	Immuno

Respiratory ONBOARDx™ Kits continued on following page »

**PANEL 9:**  
**ONBOARDx™ Kits**



Kit Catalogue Number	Kit Components <b>ONBOARDx™</b>	Assay Compatibility
<b>Respiratory ONBOARDx™ Kits</b> (continued)		
ONBOARDx™FLOQ® Respiratory Swab Kit (RUO) <b>VP-SK-RESPAG-02</b>	PROCEEDx™FLOQ® SARS-CoV-2 Antigen Positive swab <b>x5</b> PROCEEDx™FLOQ® Influenza A Positive swab <b>x5</b> PROCEEDx™FLOQ® Influenza B Positive swab <b>x5</b> PROCEEDx™ FLOQ® RSV Positive swab <b>x5</b>	Immuno
ONBOARDx™FLOQ® RSV Swab Kit (RUO) <b>VP-SK-RSV-01</b>	PROCEEDx™FLOQ® RSV Positive swab <b>x10</b> PROCEEDx™FLOQ® Negative swab <b>x2</b>	MDx, Immuno
ONBOARDx™FLOQ® RSV Swab Kit (RUO) <b>VP-SK-RSV-02</b>	PROCEEDx™FLOQ® RSV Positive swab <b>x20</b> PROCEEDx™FLOQ® Negative swab <b>x4</b>	MDx, Immuno
ONBOARDx™FLOQ® FLU Swab Kit (RUO) <b>VP-SK-FLU-01</b>	PROCEEDx™FLOQ® Influenza A Positive swab <b>x5</b> PROCEEDx™FLOQ® Influenza B Positive swab <b>x5</b> PROCEEDx™ FLOQ® Negative swab <b>x2</b>	MDx, Immuno
ONBOARDx™FLOQ® FLU Swab Kit (RUO) <b>VP-SK-FLU-02</b>	PROCEEDx™FLOQ® Influenza A Positive swab <b>x10</b> PROCEEDx™FLOQ® Influenza B Positive swab <b>x10</b> PROCEEDx™ FLOQ® Negative swab <b>x4</b>	MDx, Immuno
ONBOARDx™ SARS-CoV-2 Kit (RUO) <b>VP-K-COV2-01</b>	PROCEEDx™ SARS-CoV-2 Positive (0.5mL) vial <b>x8</b> PROCEEDx™ SARS-CoV-2 Negative (0.5mL) vial <b>x4</b>	MDx
ONBOARDx™ Respiratory Kit (RUO) <b>VP-K-RESP-01</b>	PROCEEDx™ SARS-CoV-2 Positive (0.5mL) vial <b>x3</b> PROCEEDx™ Influenza A Positive (1 mL) vial <b>x3</b> PROCEEDx™ Influenza B Positive (1 mL) vial <b>x3</b> PROCEEDx™ RSV Positive (1 mL) vial <b>x3</b>	MDx

PANEL 9:  
ONBOARDx™ Kits



Products	Kit Components ONBOARDx™	Assay Compatibility
<b>HPV ONBOARDx™ Kits</b>		
ONBOARDx™ High-Risk HPV Kit (RUO) <b>VP-K-HPV-02</b>	PROCEEDx™ HPV16/18/45 Positive Sample (1mL) Vial <b>x3</b> PROCEEDx™ HPV 31/33/66 Positive Sample (1mL) Vial <b>x3</b> PROCEEDx™ HPV 39/51/52 Positive Sample (1mL) Vial <b>x3</b>	MDx
ONBOARDx™ High-Risk HPV Positive Sample Kit (RUO) <b>VP-K-HPV-06</b>	PROCEEDx™ HPV 16 Positive Sample (1mL) Vial <b>x1</b> PROCEEDx™ HPV 31 Positive Sample (1mL) Vial <b>x1</b>	MDx
ONBOARDx™ High-Risk HPV Positive Sample Kit (RUO) <b>VP-K-HPV-05</b>	PROCEEDx™ HPV 16/18/45 Positive Sample (1mL) Vial <b>x6</b> PROCEEDx™ HPV 31/33/66 Positive Sample (1mL) Vial <b>x6</b> PROCEEDx™ HPV 39/51/52 Positive Sample (1mL) Vial <b>x6</b>	MDx
ONBOARDx™ HPV Positive Sample Kit (RUO) <b>VP-K-HPV-04</b>	PROCEEDx™ HPV 16 Positive Sample (1mL) Vial <b>x3</b> PROCEEDx™ HPV 18 Positive Sample (1mL) Vial <b>x3</b> PROCEEDx™ HPV 45 Positive Sample (1mL) Vial <b>x3</b> PROCEEDx™ HPV Negative Sample (1mL) Vial <b>x3</b>	MDx
<b>Genital Ulcer Disease ONBOARDx™ Kits</b>		
ONBOARDx™ FLOQ® Genital Ulcer Panel Swab Kit (RUO) <b>VP-SK-HVT-01</b>	PROCEEDx™FLOQ® HSV1 Positive swab (Low Level) <b>x5</b> PROCEEDx™FLOQ® HSV2 Positive swab (Low Level) <b>x5</b> PROCEEDx™FLOQ® VZV Positive swab (Low Level) <b>x5</b> PROCEEDx™FLOQ® <i>Treponema pallidum</i> 47 KDa Positive swab <b>x5</b> (Low Level) PROCEEDx™FLOQ® NAAT Negative swab (Low Level) <b>x4</b>	MDx, Immuno
<b>Gastrointestinal ONBOARDx™ Kits</b>		
ONBOARDx™ FLOQ® Campylobacter Panel Swab Kit (RUO) <b>VP-SK-GI-03</b>	PROCEEDx™FLOQ® <i>Campylobacter</i> OMP Positive swab <b>x12</b> PROCEEDx™FLOQ® Negative swab <b>x12</b>	Immuno
ONBOARDx™ FLOQ® <i>C. difficile</i> Panel Swab Kit (RUO) <b>VP-SK-GI-02</b>	PROCEEDx™FLOQ® <i>C. difficile</i> GDH Positive swab <b>x8</b> PROCEEDx™FLOQ® <i>C. difficile</i> GDH/Toxin A/Toxin B Positive swab <b>x8</b> PROCEEDx™FLOQ® Negative swab <b>x8</b>	Immuno