#### AT THE CORE OF QUALITY

## **Microbix Infectious Disease External Quality Controls**



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



# **QAPs<sup>™</sup> Product Lines Intended Use**







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 FLOQ



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

#### PTD

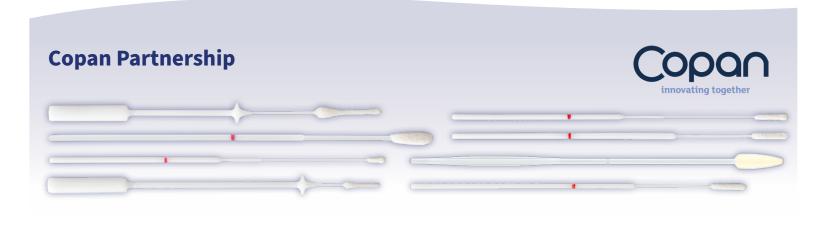


PTDx™ products are used as challenge samples in laboratory Proficiency Testing and External Quality Assessment programs.

### **ONBOAR** Skit



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





### **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 <sup>™</sup> FLOQ <sup>®</sup>	Assay Compatibility		
	Single-Target Products					
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		
Multi-Target Products						
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		
Negative-Target Products						
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		

 $<sup>^{\</sup>mbox{\tiny 1}}$  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
Single-Target Products				
SARS-CoV-2 Positive Sample	PT-19-01	VP-19-01	RED-19-01	MDx
Negative-Target Products				
SARS-CoV-2 Negative Sample	PT-99-M3	VP-99-M3	RED-99-M3	MDx

# **Respiratory Viral Swab QAPs™**

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

Products	PTDx™	PROCEEDx™FLOO®	REDx™FLOO®	Assay Compatibility	
Single-Target Products  Single-Target Products					
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	
Multi-Target Products					
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	
	Negative-Target P	roducts			
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>&</sup>lt;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	
Single-Target Products					
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	
	Multi-Target Prod	ucts			
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	-	MDx¹, 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	-	MDx¹, 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	-	MDx¹, Immuno	
Negative-Target Products					
Negative Sample	PT-99-01	VP-99-01	-	Immuno	
Negative Sample (MDx)	PT-99-M2	VP-99-M2	-	MDx, Immuno	

 $<sup>^{\</sup>rm 1}\,\text{Products}$  are QC-released with immuno assays but are also compatible with molecular assays

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