

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



AT THE CORE OF QUALITY

QAPs™ Product Lines Intended Use

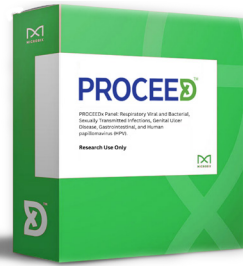


RED[®] controls RED[®]FLOQ[™]



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[®] PROCEED[®]FLOQ[™]



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

PTD[®]



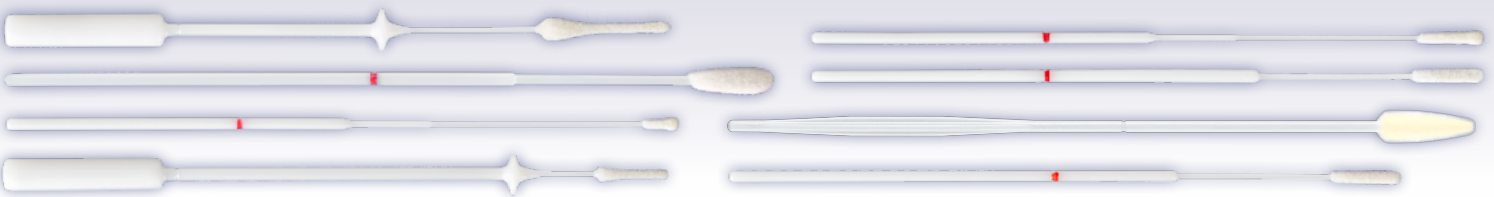
PTDx™ products are used as challenge samples in laboratory Proficiency Testing and External Quality Assessment programs.

ONBOARD[®] kit



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 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
Single-Target Products				
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
Multi-Target Products				
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
Negative-Target Products				
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
Single-Target Products				
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
Multi-Target Products				
HPV 16/18/45 Positive Swab	PT-S-62-M1	VP-S-62-M1	Coming soon	MDx
Negative-Target Products				
NAAT Negative Swab (RUO)	PT-S-99-M4	VP-S-99-M4	Coming soon	MDx