

**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

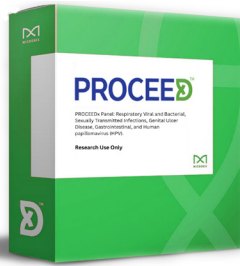


## RED<sup>®</sup> controls RED<sup>®</sup>FLOQ<sup>™</sup>



**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>®</sup> PROCEED<sup>®</sup>FLOQ<sup>™</sup>



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

## PTD<sup>®</sup>



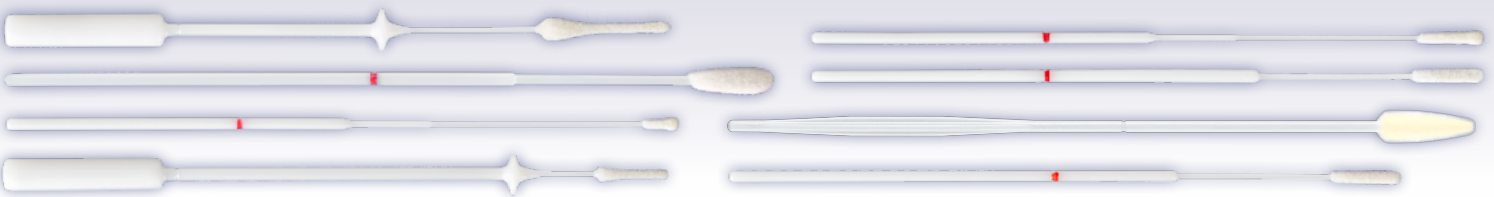
**PTDx™** products are used as challenge samples in laboratory Proficiency Testing and External Quality Assessment programs.

## ONBOARD<sup>®</sup> 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 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)<br><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)<br><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<br><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><br>NAAT Negative Swab (RUO) | PT-S-99-M4 | VP-S-99-M4     | RED-S-99-M4              | MDx                 |
| Respiratory Negative Swab (IVD)<br>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