



Specimen Collection, Storage, & Transport Device **BIOSAMPLING ADVANTAGES**



DEVICES

- **SDNA-RUO**; For Research Use Only
- **SMD-RUO**; For Research Use Only

SIMPLE

- Increased user safety with attached and sealed, solution filled device cap
- Lowers sample viscosity
- Polymer with silicone like feel
- USP6 highest medical grade certification for bio compatibility
- No risk of sample contaminating fibers from swab

EFFICIENT

- Collect 150% more sample for processing
- System maintains biosample consistency significantly reducing costs associated with sample failures & recollection
- Release of collected sample in device tube without centrifugation
- Simplified and automatic in-device sample release innovation for a more complete and thorough sample recovery
- Self-contained, user-friendly saliva collection system provides critical sample quality and supports laboratory automation for high-throughput analyses.
- Partner testing measured improved assay repeatability, lowering coefficient of variability, and boosted sensitivity*
- Support in-clinic, at-home remote care, or direct-to-consumer testing solutions

SDNA BUFFER

- Patented SDNA (CV3) buffer stabilizes, preserves, & protects nucleic acid transcripts
- Single device for DNA/viral RNA nucleic acid stabilization
- Eliminates sample loss due to sample binding effect
- Bactericidal, virucidal, & microbicidal
- In-device $\geq 99.99\%$ live virus inactivation of SARS-CoV-2, Flu A, Flu B, & RSV in 10-seconds at ambient temperatures
- Qualified commercial RNA extraction chemistries include Perkin Elmer, Thermo Fisher, Roche, Qiagen, & more
- 36-months pre-collection shelf life at ambient temperatures
- 24-months post-collection DNA stability at ambient temperatures*
- 28-days post-collection RNA stability at ambient temperatures*
- In-device sample storage & transport with no temperature controlled requirements
- Partner testing demonstrated DNA single amplification capability and reduced effects of saliva matrix on hybridization*

SMD BUFFER

- First-in-kind patent-pending solution with multi-omic capabilities stabilizes, preserves, & protects proteomic and genomic analytes at room temperature
- Preserves inflammatory markers for downstream analysis in evaluation of cytokines
- Concordance to serological biomarkers*
- Cross-platform compatibility* including Luminex, Olink, Somalogic, and ELISAs
- Compatibility with extractionless PCR testing*
- 2-year shelf life at ambient temperatures
- 14 days post-collection stability for proteins at ambient temperatures*,**
- Over 10-days post-collection stability for DNA at ambient temperatures*

The Future of Sample Collection has Arrived.

Collect Higher Sample Volumes & Uphold Analyte Integrity From Anywhere Worldwide

Intended for the non-invasive assisted and self-collection of specimen samples, the MAXSwab has been engineered to uniquely lead the swab collection and analyte stabilization market for IVD molecular diagnostic applications while increasing ease of use and user safety.

Made from a proprietary USP6 silicone like material, the specialized MAXSwab device has been designed to collect and hold higher genomic yields while eliminating sample contamination fibers from swab head breakdown. Collected samples are directly transferred to the device tube and stabilized at room temperature by firmly twisting the tube cap until its securely contained buffer solution is released. Buffer solution delivers full analyte release from the swab head eliminating the need for sample centrifugation and providing the unique opportunity for a complete recovery of the collected sample.

Instrumental in helping to accelerate the scientific journey, the new MAXSwab self-contained specimen collection device demonstrates an average 265 μ L (6.7 μ g) DNA yield with a high over 500 μ L (29 μ g). In addition to home collection and safer user sample handling, Spectrum offers two innovative buffer solutions that provide critical sample consistency and extended nucleic acid stability based on the applications needs at ambient temperatures.

1. SDNA (DNA/Viral RNA analyte stabilization)
2. SMD (Multi-Omic Proteomic/Genetic analyte stabilization)

Consider pairing the MAXSwab with any of our end-to-end partner solutions to innovate, advance, or support your molecular diagnostics and DTC testing applications.

- Innovative Assay Development
- Highly-Sensitive DTC, Physician-Ordered, & Reference Testing
- Test-to-Treat Digital Healthcare Partner Pharmacy
- Med-Device Product Development & Contract Manufacturing
- Clinical Kitting + Specialized Test Kit Development
- Kit Fulfillment & Warehousing
- Testing Business Support Services/Logistics



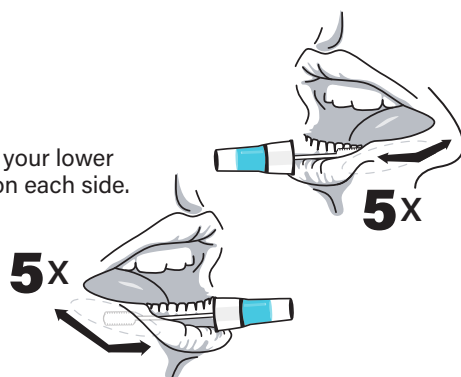
- ✓ Direct-to-Consumer
- ✓ At-Home
- ✓ Point-of-Care



COLLECTION PROCESS

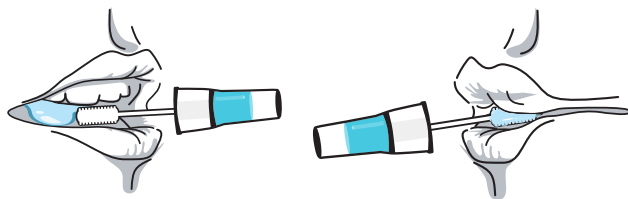
1

Locate and rub the space between your lower cheek and lower gum line 5 times on each side.



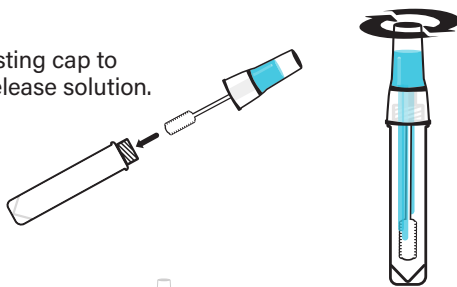
2

Suck on the swab while producing saliva.



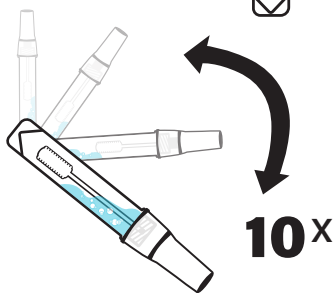
3

Place swab inside tube twisting cap to secure, tightening cap to release solution.



4

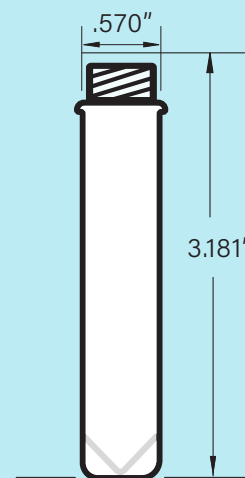
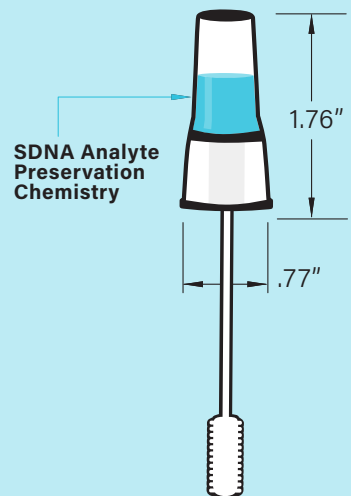
Tilt tube allowing solution to move over swab 10 times.



DEVICE SPECIFICATIONS

Innovative Design

The MAXSWAB has been engineered to resolve common device inefficiencies, failures, and fall downs associated with traditional swab collection, sample processing, and testing.



REQUEST FOR INFO

For individual MAXSwab product series related questions or additional product information contact our Spectrum sales team or visit the website spectrum-solution.com/MAXSwab.

LABORATORY | MANUFACTURING | COMPOUNDING R_x

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* Lab partner data with on-going evaluation & updates ** Depending on Protein
(1) <https://pubmed.ncbi.nlm.nih.gov/34911366/>



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