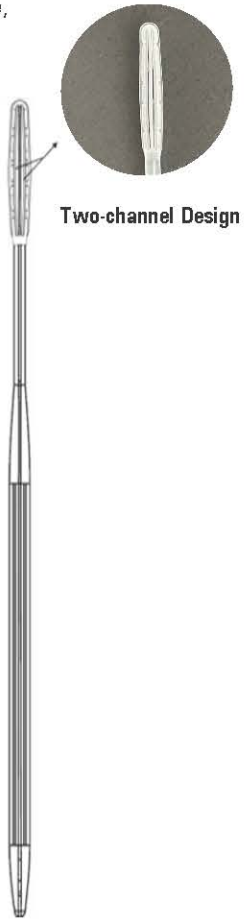
NextSWAB™

A plastic sample applicator designed for high efficiency collection and release capability

The COVID-19 pandemic created major supply chain disruptions in testing supplies, especially for swabs. In response to these supply issues, Mawi DNA Technologies developed the 100% plastic, injection molded NextSWAB as an efficient alternative to standard nasal and oral swabs. NextSWAB has an industry standard 6" length, with a unique head design positioned at the distal end. The swab head is designed with two channels separated by a septum that can retain collected nasal or oral material, which can then be completely released into the transport media with a gentle shake after which the NextSWAB can be discarded. This functionality removes the need for a breaking point in the shaft and for any part of the swab to be transported with the sample, therefore enabling sample pooling and streamlining automated high throughput sample processing.

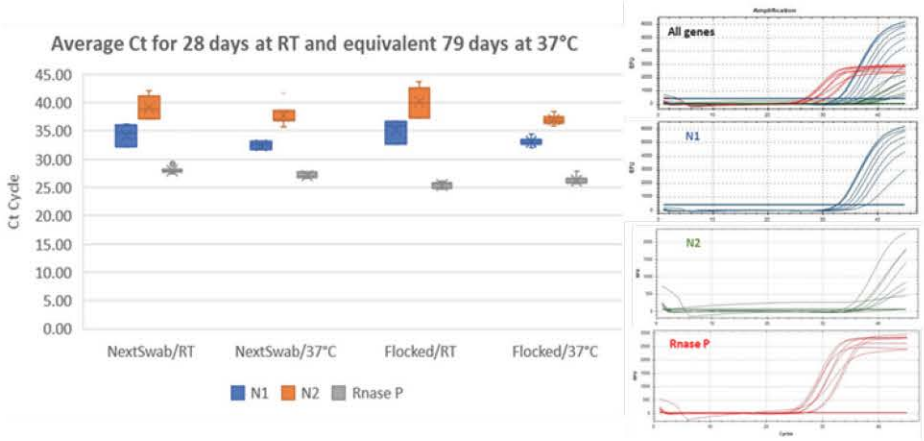
Features:

- Available sterile in single and double swab pouches.
- Compatible with oral, fecal, vaginal, and mid-turbinate nasal sample collection.
- The two-channel design of the swab head provides an optimal sample capture mechanism for bodily fluids and cells.
- Designed for optimal sample release with a simple shake within our iSWAB devices. Compatible with any sample transport tube, making it ideal for multiple swab sample pooling in a single tube.
- An efficient alternative to flocked swabs



Two-channel Design

RNase P Gene Expression Confirms that NextSWAB Collection Efficiency is Comparable to Flocked Swab



Average Ct cycle at which SARS-CoV-2 genes N1 and N2 were detected along with the RNase P gene across 28 days in samples collected either with the molded NextSWAB or with a standard flocked Copan/iClean swab at room temperature and at 37°C. The latter is equivalent to 79 days at ambient (room) temperature. On the right panel, amplification plots of all the three genes, of SARS-CoV-2 gene N1 (FAM channel), of SARS-CoV-2 gene N2 (HEX channel), and of human RNase P gene, at Day 28 after sample collection. The RNase P gene, indicative of the presence of human RNA and the sampling capacity of NextSWAB, was consistently detected at Ct 27.36-29.09 (±0.09) at RT and at Ct 26.6-27.63 (±0.38) at 37°C for 28 days. SARS-CoV-2 was also consistently detected (Ct values ≤40 for SARS-CoV-2 specific genes N1 and N2) across 28 days at room temperature and at 37°C directly from iSWAB-Microbiome-EL stabilization buffer, without the need of laborious RNA extraction and in the presence of background human RNA.

Part No.	Product
ISM-T-EL	iSWAB-Microbiome Extractionless Tube (0.8 mL/Tube)
NextSWAB-1	NextSWAB Universal Sterile Sampling Applicator (1 swab/pouch, 1000 swabs/box)
NextSWAB-2	NextSWAB Universal Sterile Sampling Applicator (2 swab/pouch, 2000 swabs/box)

mawi

Biosampling Reinvented™

USA/Canada: +1 510-256-5186 / +1 855 DNA-SWAB / www.mawidna.com