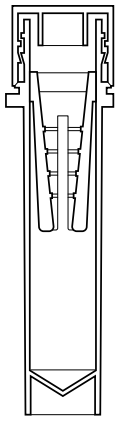
iSWAB™-ID

Next-Generation All-in-One Forensics Sample Collection Device

COLLECT • CONCENTRATE • STABILIZE • RECORD • TRANSPORT • STORE • ANALYZE

Mawi DNA Technologies' iSWAB™-ID device stabilizes biometric samples at the point of collection—a major advancement over other current tools and methods that helps to overcome hurdles commonly associated with sample storage and analysis.

iSWAB-ID is an efficient sample collection system for evidentiary and reference DNA samples, which enables long term room temperature stabilization of collected samples at the point of collection, while ensuring proper chain of custody. Typically yields 2-7µg (iSWAB-ID) of DNA with <3% bacterial contamination. This system allows for maximizing sample recovery and obtaining human DNA compatible with ID profiling assays. DNA extraction can be performed using any commercially available whole blood extraction chemistry.



Patented sample **CONCENTRATION** and **STABILIZATION** technology

FACTORS WHICH CAN NEGATIVELY IMPACT SAMPLE INTEGRITY INCLUDE THE FOLLOWING:

BACTERIA OR FUNGI can grow due to improper storage and transport

DNA CAN BE DEGRADED by DNases released by collected cells

OVER-DRYING of the sample can cause irreversible DNA binding

In addition, there is often not enough evidence to support multiple assays. A collection method that offers stabilization at the point of collection and allows room temperature shipment and long-term storage is critical to maintain samples' integrity.

THE iSWAB-ID DEVICE PERFORMS SEVERAL FUNCTIONS AT THE POINT OF COLLECTION:

- ✓ **COLLECT** Can be used for the collection of Touch DNA and Reference Samples (e.g. buccal cells, blood spots, sweat, semen, and any other body fluid)
- ✓ **CONCENTRATE AND STABILIZE** Complete release and stabilization of the sample from the swab into the iSWAB tube at the point of collection (no drying time required)
- ✓ **RECORD** Pre-barcoded components to maintain chain of custody
- ✓ **TRANSPORT AND STORE** Room temperature transport and long-term storage
- ✓ **ANALYZE** High DNA recovery allows for several runs of Direct PCR, Genotyping and DNA sequencing (Sanger & NGS)

REF /Catalog Number	Product Family Name	Stabilizing Buffer
iSWAB-ID	iSWAB ID Human DNA Collection Kit	400 µL
ISF-T-ID-R	iSWAB ID Human DNA Collection Device Rack	400 µL x 50 units
ISF-T-ID	iSWAB ID Human DNA Collection Device	400 µL x 500 units

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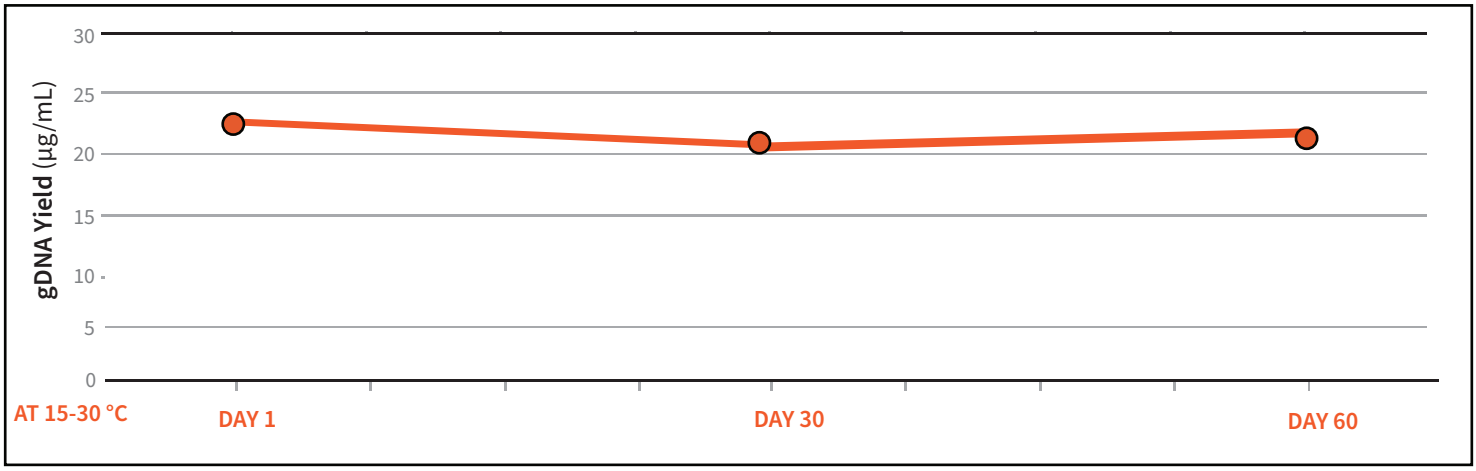
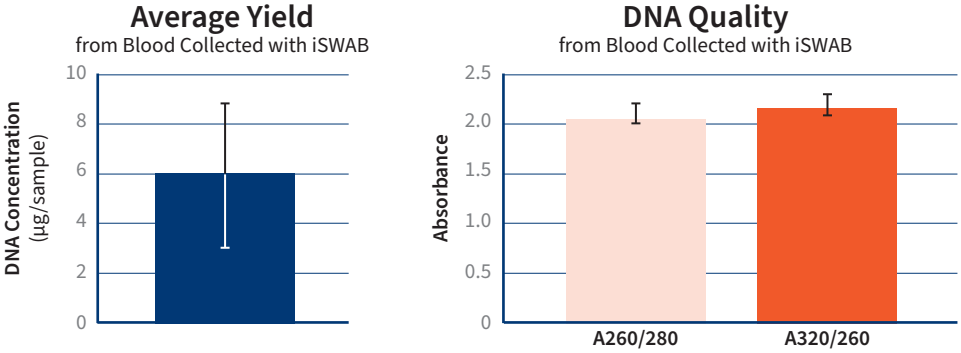
iSWAB Collected Samples are Stable for 60 days at Room-Temperature



iSWAB is compatible with Blood Spot Collection and Stabilization

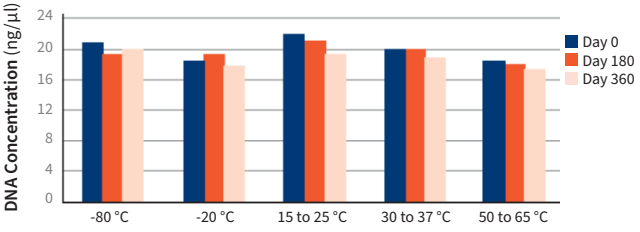


DNA extraction was performed with QiaAMP Blood extraction kit (n=12). The yields are from a single iSWAB tube. Blood drops were collected using 2 cotton swabs. Blood from the swabs was released and suspended in the iSWAB tube. No measurable DNA concentration was obtainable from equivalent volume of blood collected with FTA cards. DNA yields were confirmed with 2 different methods: Nanodrop and picogreen assay.

High Molecular Weight gDNA from Blood Collected with iSWAB

Agarose gel (0.8%) electrophoresis of gDNA samples isolated from 100 µL of human blood collected with ISWAB-ID-250 using QIAamp Blood kit. 4 µL of 100 µL elute was used for electrophoresis. M: DNA/Hind III+EcoR I

iSWAB-ID-250 Real Time Stability Testing-Temperature Effect



iSWAB-ID-250 Preserving Capability. gDNA yields obtained from a pooled iSWAB-ID sample aliquoted and retained at -80°C, -20°C, 15-25°C, 30-37°C, and 50-65°C for 360 days. Yields remained stable and ranged from 18-22 ng/µL.

The data shown here demonstrate iSWAB-ID's preserving capability to recover high yields of gDNA while maintaining its integrity at a wide range of temperatures (-80°C to 65° C), including typical room temperature range (15-25°C).

Direct PCR-STR Kits Compatible with iSWAB-ID		
	Thermo Fisher	AmpFLSTR® Identifiler® Direct PCR Amplification Kit*
	Promega	PowerPlex® Fusion Systems*
		PowerPlex® Y23 System*

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