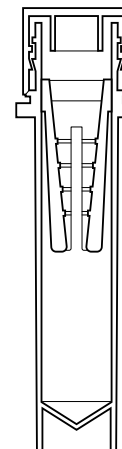


# iSWAB™-Discovery Technology

## Non-Invasive Device for Collection and Stabilization of DNA

The iSWAB™-Discovery (DSC) collection device consists of a collection tube that is pre-filled with 400 µL of the nontoxic iSWAB™-DNA buffer and fitted with a proprietary insert. The insert is designed to optimize the release of specimens collected with swabs into the gentle lytic buffer, creating a minimal footprint and allowing for swab-free transport of specimens. Self-collection or assisted collection can be achieved in less than 5 minutes and is suitable for all population segments including infants, toddlers, and elderly. iSWAB™-DSC is pre-barcoded for a traceability and storage, and is easy to process via manual and automated applications. The device is human gDNA and PCR inhibitor free and collected samples are stable at room temperature (15-30 °C) for over 60 days.



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

**GENETIC ANALYSIS** Epigenetics | Epidemiology | Forensics

**VETERINARY TESTING** Genotyping | Breeding | Speciation

**ASSAYS** PCR | Sequencing | Genotyping | Gene Expression

- ✓ **SWAB-FREE SAMPLE TRANSPORT** Decrease processing time without compromising sample integrity.
- ✓ **HIGH DNA YIELD** Up to 7µg (iSWAB-DSC) of double-stranded, long-fragment DNA for use in applications including microarray and NGS.
- ✓ **LOW BACTERIAL CONTAMINATION** < 3% bacterial genomic DNA contamination in sample collection.
- ✓ **ROOM-TEMPERATURE STABLE** Eliminates cold chain requirements, reducing storage and transport costs.
- ✓ **SELF-COLLECTION OR ASSISTED COLLECTION IN < 5 MINUTES** Suitable for all population segments including infants, toddlers, and elderly people.
- ✓ **TRACEABLE AND RELIABLE CHAIN OF CUSTODY** LIMS-compatible unique barcodes included on each collection device for efficient traceability and storage purposes.
- ✓ **SCALABLE AND EASY TO PROCESS** Manual and automation friendly sample processing.
- ✓ **CERTIFIED FREE OF HUMAN gDNA AND PCR INHIBITORS**

Catalog No.	Description	Stabilizing Buffer Volume
iSWAB-DSC	iSWAB-Discovery Human DNA Collection Kit,	400µL
ISF-T-DSC-R	iSWAB-Discovery Human DNA Collection Device Rack ,	400µL x 50 units
ISF-T-DSC	iSWAB-Discovery Human DNA Collection Device Bag,	400µL x 500 units

**mawi**

Mawi DNA Technologies LLC  
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Tel:510-256-5186 | US/Canada: 510-256-5186 | 855-DNA-SWAB

**EC REP** CEpartner4U [www.cepartner4u.com](http://www.cepartner4u.com)

Esdoornlaan 13 | 3951 DB | Maarn | The Netherlands



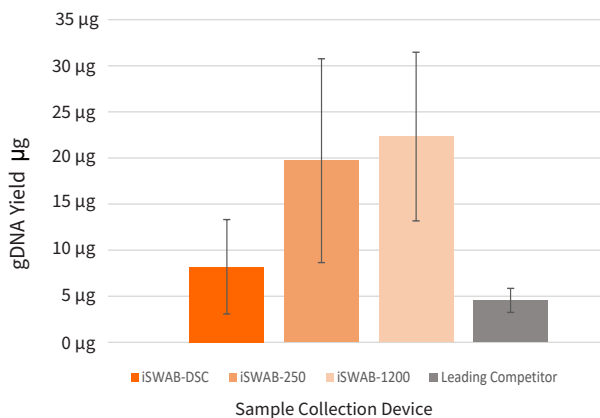
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**COLLECT • STABILIZE • CONCENTRATE • TRANSPORT • EXTRACT • STORE**  
all in a single tube!

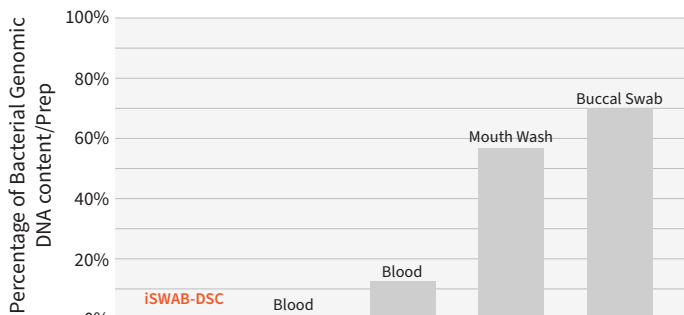
**gDNA YIELD IN SAMPLE**

Comparison of Average gDNA Yields



**<3% BACTERIAL CONTAMINATION**

Comparison of Average Bacterial Genomic DNA Contamination Detected in Different Collection Methods



Primers specific for the 16S ribosomal RNA gene were used as a simple method to obtain relative quantification of bacterial DNA.

**iSWAB-Discovery Features**

Attributes	iSWAB-DSC
Sample Volume	400µL
Swab Needs to Travel with Sample	No
Collection Time	< 5 min
Median Human DNA Yield	2-7 µg
Molecular Weight of DNA	> 23 kb
Bacterial DNA Content	< 3%
Storage and Transport	RT
Stability	Months
Capability to Concentrate Sample	Yes
Suitable for All Population Segments	Yes
Automation Friendly	Yes
Number of Extraction Steps	5
Liquid Sample	Yes
Barcoded	Included
Return Transport Packaging Provided	Yes
Long-term Storage Real Estate	Small

**Compatible RT-PCR and LAMP Assays**

Investigator Quantiplex Kit (Qiagen, Cat. # 387016), Promega PowerPlex 16 HS System (Promega, Cat. # DC2101), EZ1 Advanced XL DNA Investigator Flip-Cap Card (Qiagen, Cat. # 9019933), TaqMan Open Array Genotyping assays | Listed assays were validated for Mawi DNA via 3rd party lab. Contact us if assay being used is not listed.



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