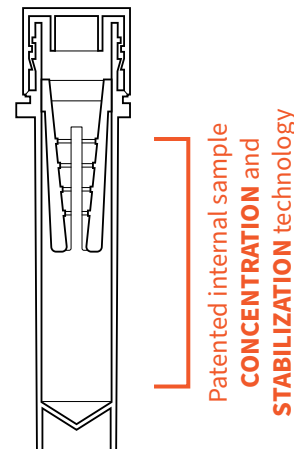


iSWAB™-DNA Technology

Non-Invasive Device for Collection and Stabilization of DNA

The iSWAB™-DNA device allows for the collection and stabilization of DNA at the point of collection without the need for swab inclusion. Typical yields of between 10-30µg (iSWAB™-DNA-1200) and 5-15µg (iSWAB™-DNA-250) of DNA with <1% bacterial contamination. 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-DNA is pre- barcoded for a traceability and storage, and is easy to process via manual and automated applications. The iSWAB device is human gDNA and PCR inhibitor free and collected samples are stable at room temperature for over 5 years.



APPLICATIONS

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 30µg (iSWAB-DNA-1200) of double-stranded, long-fragment DNA for use in applications including microarray and NGS.
- ✓ **LOW BACTERIAL CONTAMINATION** > 1% 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-DNA-1200	iSWAB-DNA Collection Kit,	1mL
iSWAB-DNA-250	iSWAB-DNA Collection Kit ,	600µL
ISD-T-1200-R	iSWAB-DNA Collection Device Rack,	1mL x 50 Units
ISD-T-250-R	iSWAB-DNA Collection Device Rack,	600µL x 50 Units
ISD-T-1200	iSWAB-DNA Collection Device,	1mL
ISD-T-250	iSWAB-DNA Collection Device,	600µL

mawi

Mawi DNA Technologies LLC
www.MawiDNA.com

26203 Production Ave, Suite 3 | Hayward, CA 94545
Tel:510-256-5186 | US/Canada: 510-256-5186 | 855-DNA-SWAB



CEpartner4U www.cepartner4u.com

Esdoornlaan 13 | 3951 DB | Maarn | The Netherlands



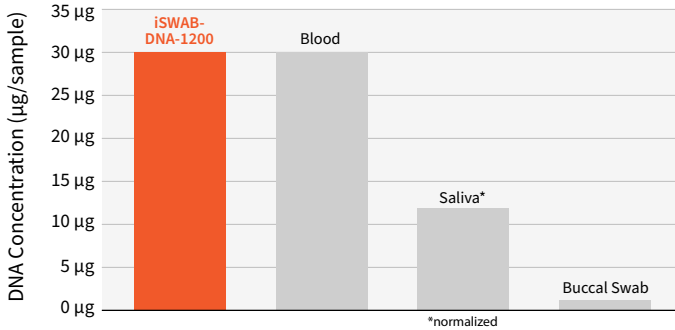
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COLLECT • STABILIZE • CONCENTRATE • TRANSPORT • EXTRACT • STORE

all in a single tube!

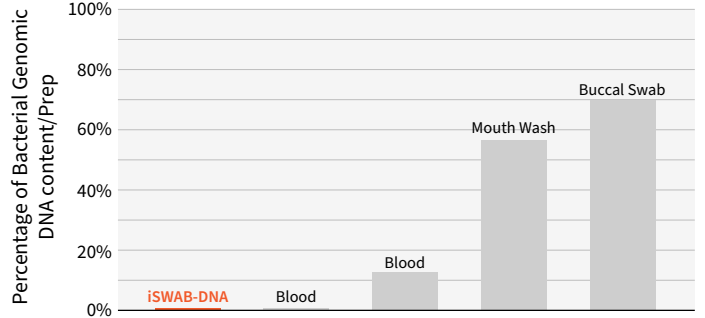
HIGH GENOMIC DNA YIELD

Comparison of Average gDNA Yields Isolated from Different Collection Methods



<1% BACTERIAL CONTAMINATION

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

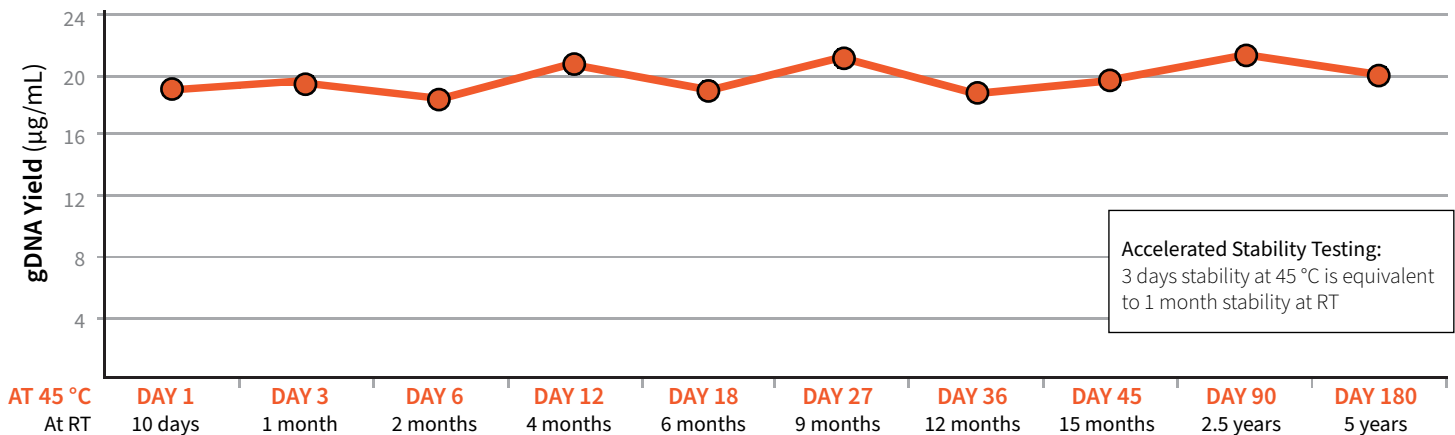


Primers specific for the 16S ribosomal RNA gene were used as a simple method to obtain relative quantification of bacterial DNA.

COMPARISON CHART

Attributes	iSWAB-DNA-1200	Blood	Saliva	Regular Swab	Mouth Wash
Sample Volume	1 mL	1 mL	2 mL	Dry	2 mL
Swab Needs to Travel with Sample	No	N/A	N/A	Yes	N/A
Collection Time	< 5 min	5-10 min	20-30 min	1 min/swab	5 min
Median Human DNA Yield	15-30 µg	20-30 µg	10-30 µg	1-2 µg	10-30 µg
Molecular Weight of DNA	> 23 kb	> 23 kb	> 23 kb	< 23 kb	> 23 kb
Bacterial DNA Content	< 1%	< 1%	Up to 40%	Up to 90%	Up to 60%
Storage and Transport	RT	Cold Storage	RT	RT	RT
Stability	Months	Months	Months	Days	Weeks
Capability to Concentrate Sample	Yes	N/A	N/A	No	N/A
Suitable for All Population Segments	Yes	Yes	No	Yes	No
Automation Friendly	Yes	Yes	Somewhat	No	No
Number of Extraction Steps	5	7-10	6	10	6
Liquid Sample	Yes	Yes	Yes	No	Yes
Barcoded	Included	Included	Custom	Custom	Custom
Return Transport Packaging Provided	Yes	No	No	No	No
Long-term Storage Real Estate	Small	Large	Medium	N/A	Medium

iSWAB Collected Samples are Stable Over Five Years at Room-Temperature



COMPATIBLE WITH: 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 and many others. | Listed assays were validated for Mawi DNA via 3rd party lab. Contact us if assay being used is not listed.



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