

# iSWAB™ - DSC

Non-invasive device for collection and stabilization of long-fragment, double-stranded DNA



The iSWAB-Discovery device allows for the collection and stabilization of DNA at the point of collection without the need for swab inclusion. Typical yields of between 2-7µg (iSWAB-DSC) of DNA with <1% bacterial contamination can be achieved. The gentle collection and lysis chemistry of the alcohol-free iSWAB buffer allows for recovery of double-stranded, large fragment DNA similar to the genomic DNA generated from blood, making it suitable for complex genomics downstream arrays such as microarrays and Next Generation Sequencing. Other non-invasive collection methods often utilize alcohol and can produce short DNA fragments limiting their usability to basic genotyping applications.

## Applications include:

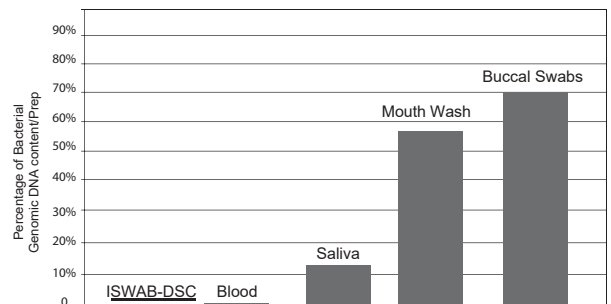
- Genetic Analysis: Epigenetics, Epidemiology, and Forensics.
- Veterinary Testing: Genotyping, Breeding, Speciation

## Features & Benefits

- 7c`YWi!GHUJ]nY!7cbWbFfUHr!HfUbgdcfh!9I!fUWf!GfcfY..5`b`UG]b[`YH VY`
- Gk UV!ZYYgUa d`YfUbgdcfh`Ä^&^æ^Áæ ]|Á!|&••â\*Áæ ^Á, æQ`o&[ ]|{ } ââ\*Áæ ]|Áæ c\*!æ
- I d`lc`+ [ f!GK 56!8G7LcZXci V`YgHfUbXYXZ`cb[ `ZU a Ybh 8B5`for downstream applications including microarray and NGS
- **Achieve less than 1% bacterial genomic DNA contamination:** Á Š[, Áæc!æ^)[{ }ÄÖP&[ }æ âæ }Áæ ]|Áæ ]|Áæ }
- **Room temperature stable:** Ü^â`&Áæ ]|Áæ!æ^Áæ áÁ dæ•][|o&•oÁ`Áâ âæ\*Á|á&æ Á~`á{ ^}o
- **Self collection or assisted collection in less than 5 minutes:** Á Ü`ææ|Á!|Á![]`|æ }Á^\*{ ^}o&â`ââ\*Áæ o&æ áá|!•Ä æ áÁ|á!|â•Á
- **Traceable and reliable chain of custody:** ÄQ Ü&[ ] ææ|Á` }á~^ææ[ á•&â`ááÁ }Áæ&[ ]|Áæ }Áææ|Á!|Á`æ}o dææææ Áæ áÁæ!æ^Á~][ •• GWUUV`YUbX`YUgmic`dfcWgg.Á Tæ`ææ áææ { ææ }Áæ }á!Áæ ]|Á!|&••â\*
- **Human gDNA and PCR inhibitor free certified**

## Low Bacterial Contamination (<1%)

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.



Biosampling Reinvented™

08/20/21

USA/Canada: +1 510-256-5186 / +1 855 DNA-SWAB

www.mawidna.com

For research use only. Not for use in diagnostic procedures. iSWAB is a trademark of Mawi DNA Technologies LLC. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details. © 2013 Mawi DNA Technologies LLC. All rights reserved. Version ISDDS-1.07

DS-0070 (-)

iSWAB DSC DATASHEET v1

# iSWAB™ - DSC

Non-invasive device for collection and stabilization of long-fragment, double-stranded DNA



## Applications:

- Genetic Research
- Forensics Research
- Veterinary Research
- Epidemiology

## Assays:

- PCR
- Sequencing
- Genotyping
- Gene Expression

Part No.	DNA Collection Products	# of swabs	Collection Volume	Expected DNA Yield
ISWAB-DNA-1200	iSWAB-DNA Collection Kit, 1.0 ml	4 swabs	1.0 ml	10 - 30 µg
ISWAB-DNA-250	iSWAB-DNA Collection Kit, 600 µl	2 swabs	600 µl	5 - 15 µg
ISWAB-DSC	iSWAB-Discovery Collection Kit, 400 µl	1 swab	400 µl	2 - 7 µg

ISD-T-1200-R	iSWAB-DNA Collection Tube Rack, 1.0 ml x 50
ISD-T-250-R	iSWAB-DNA Collection Tube Rack, 600 µl x 50
ISD-T-DSC-R	iSWAB-DNA Collection Tube Rack, 400 µl x 50