

iSWAB™-Microbiome

Stable Ambient Transport and Storage of Viral and Microbial Nucleic Acids

iSWAB™-Microbiome collection device is a non-invasive, non-toxic sample collection technology for stable ambient transport and storage of viral/microbial DNA and RNA from various sample types including fecal, vaginal, skin, soil, nasal, oral, and saliva. The iSWAB™ is fitted with a proprietary insert designed to optimize the release of specimens collected with swabs into the stabilizing buffer, creating a minimal footprint and allowing for swab-free transport of specimens. Purified viral/microbial DNA or RNA isolated from collected samples are suitable for qPCR, microarray, NGS, and legally marketed molecular diagnostic assays for microbiome research in health, wellness, and forensics. The iSWAB™-Microbiome collection device is intended for the stabilization and inactivation of upper and lower respiratory human specimens suspected of containing SARS-CoV-2 and other biosamples with microbial community. Sample stability and storage: 42 days for SARS-CoV-2 samples, 21 days for microbial RNA, and 40 days for microbial DNA at 15-30 °C.

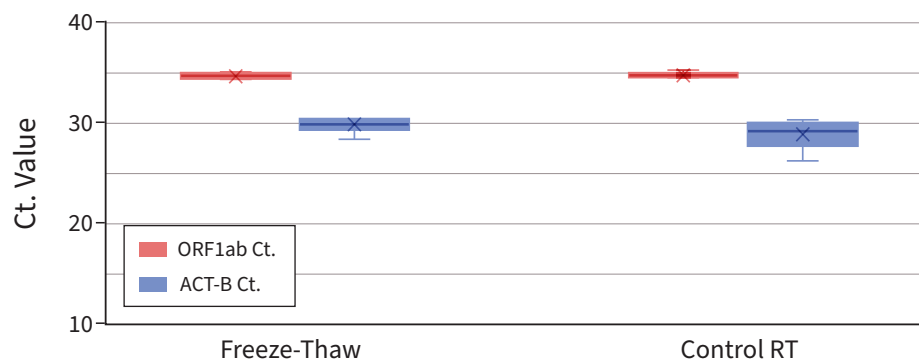
Inactivation of Infectious Viruses

	0 min	30 min	2 hrs	6 hrs	12 hrs	24 hrs	48 hrs	72 hrs
Influenza A	++++	+/-	+/-*	ND	ND	ND	ND	ND
Influenza B	++++	+/-	+/-*	ND	ND	ND	ND	ND
SARS-CoV-2	++++	+/-	+/-*	ND	ND	ND	ND	ND

iSWAB-Microbiome Inactivation Data. Efficiency of iSWAB-Microbiome in the inactivation of Influenza A, B and SARS-CoV-2 viruses over 72 hr incubation period at room temperature.

++++ Very high (104 TCID50/mL) • +++ High • ++ Medium • +/- Low • ND Not Detected

Comparison of Ct. Amplification Between Devices Subjected to Freeze-Thaw and Control Conditions



Ct. Amplification of ORF1ab and ACT-B across both lots for spiked samples collected in devices subjected to either freeze-thaw cycles or control (room temperature) conditions. The data demonstrates good replicability between the freeze-thaw and control conditions, indicating that shipping/pre-collection stability is established.

REF /Catalog Number	Product Name	Stabilizing Buffer
ISWAB-MB-1200	iSWAB™-Microbiome Collection Kit	1.0 mL
ISM-T-1200-R	iSWAB™-Microbiome Collection Device Rack	1.0 mL x 50 units
ISM-T-1200	iSWAB™-Microbiome Collection Device	1.0 mL x 500 units
ISWAB-MBF-1200	iSWAB™-Microbiome Collection Kit (with Feces Catcher)	1.0 mL

mawi

Mawi DNA Technologies LLC
www.MawiDNA.com

1252 Quarry Lane, Suite A | Pleasanton, CA 94566

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

EC REP CEpartner4U www.cepartner4u.com
 Esdoornlaan 13 | 3951 DB | Maarn | The Netherlands

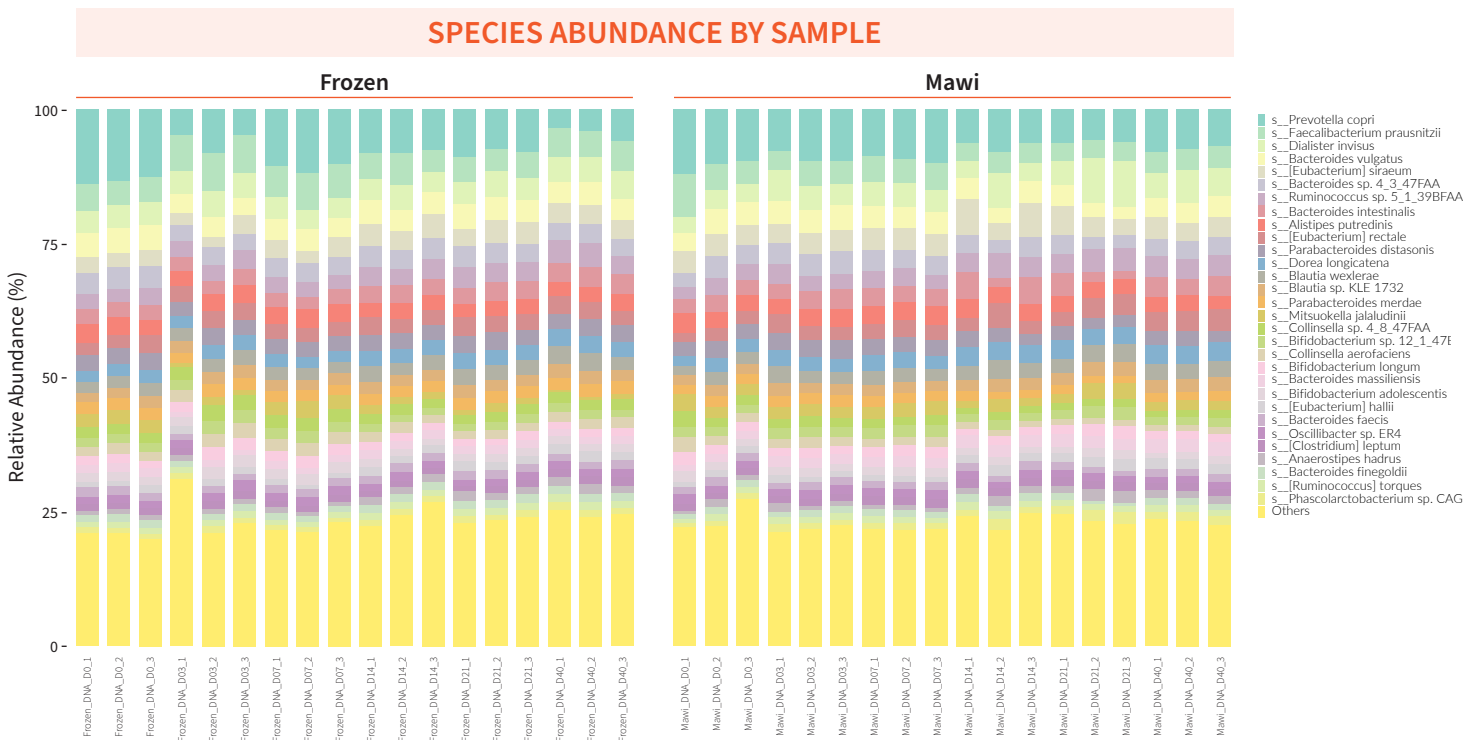
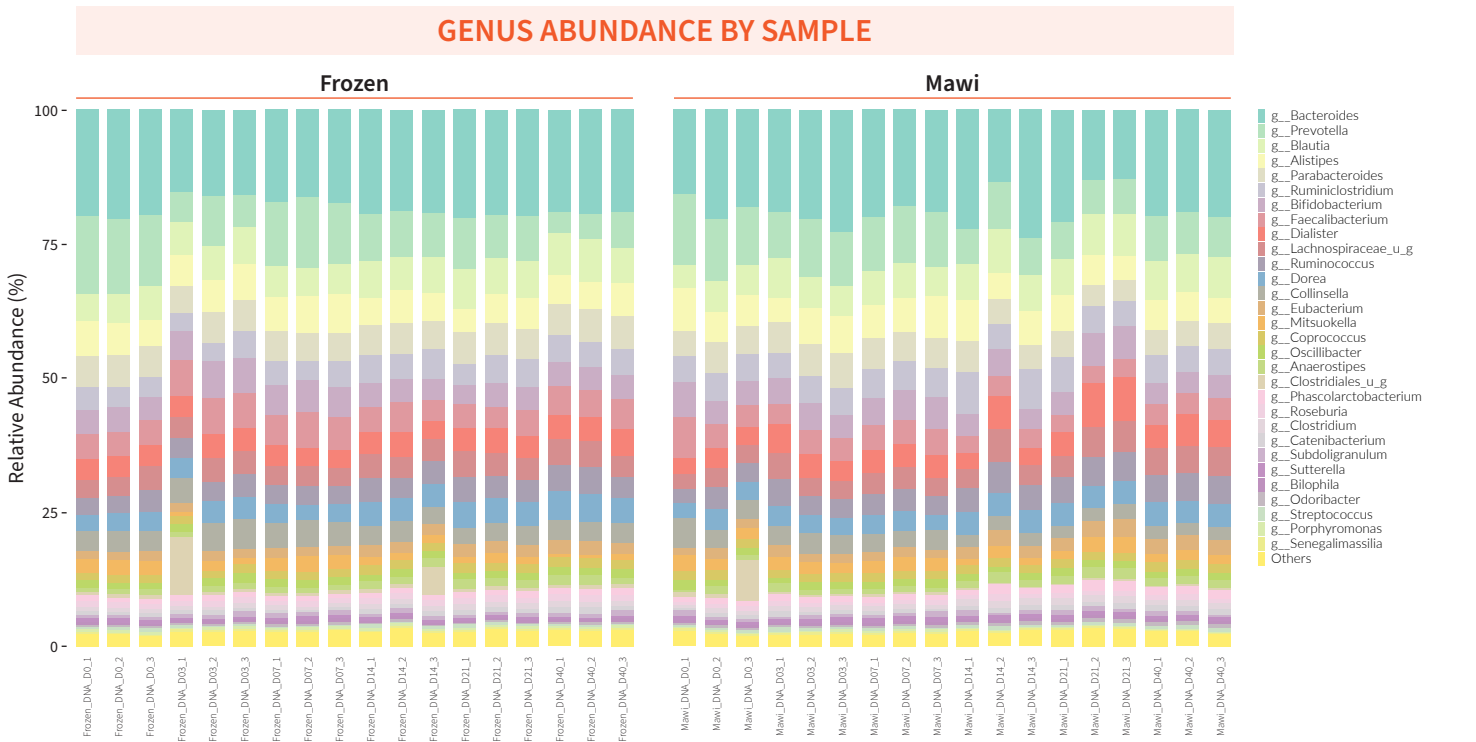


iSWAB is a trademark of Mawi DNA Technologies LLC. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details. © 2013 Mawi DNA Technologies LLC. All rights reserved. Version ISFDS-1.01

*The products shown contain the CE Mark and are approved for IVD use in countries recognizing this standard. In the USA, products are designated For Research Use Only and not for use in diagnostic procedures and will be labeled accordingly.

DS-0091 (C) iSWAB-Microbiome Datasheet Effective Date : 2023-03-30

The Microbial Diversity/Profile of Fecal Samples from Point of Collection to Processing Remains Unaffected with **iSWAB-Microbiome** and is Much More Similar to Frozen Samples. Part I (Customer/ Third-Party Validated Data).



Mawi DNA Technologies LLC
www.MawiDNA.com
 1252 Quarry Lane, Suite A | Pleasanton, CA 94566
 Tel: 510-256-5186 | US/Canada: 510-256-5186 | 855-DNA-SWAB

EC REP CEpartner4U www.cepartner4u.com
 Esdoornlaan 13 | 3951 DB | Maarn | The Netherlands

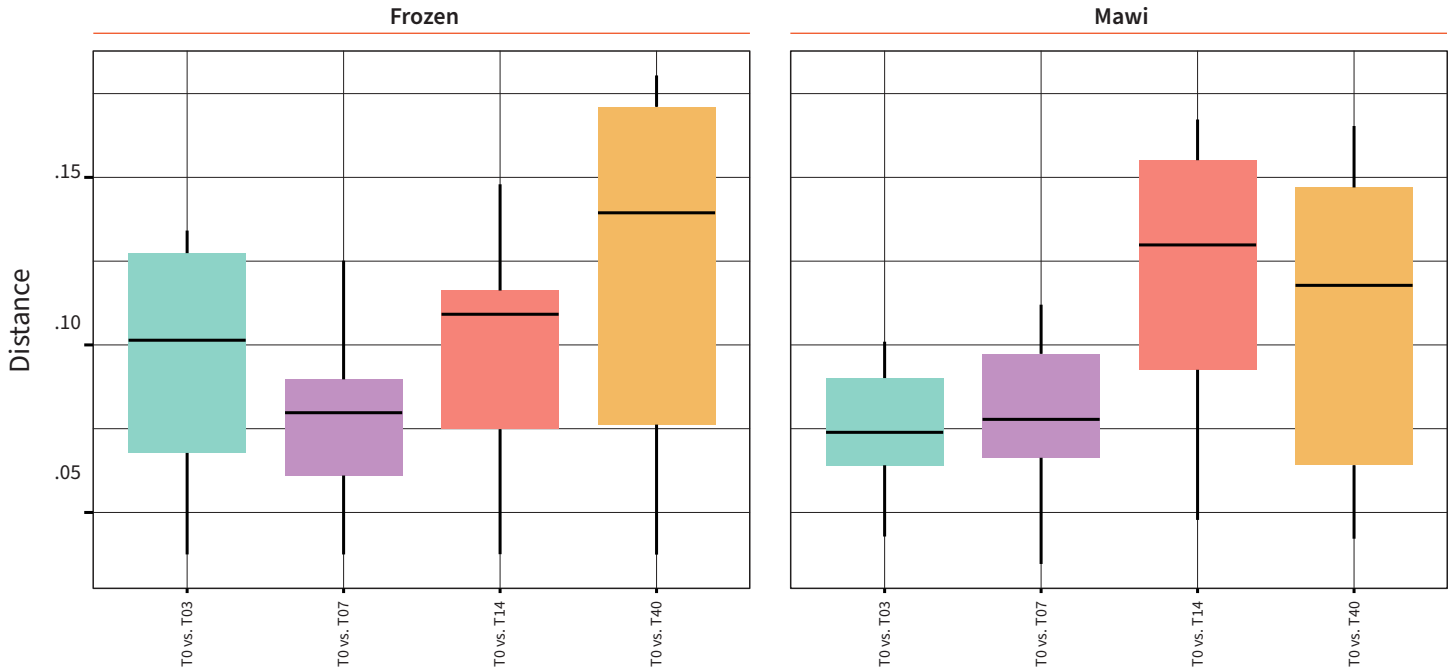


iSWAB is a trademark of Mawi DNA Technologies LLC. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details. © 2013 Mawi DNA Technologies LLC. All rights reserved. Version ISFDS-1.01

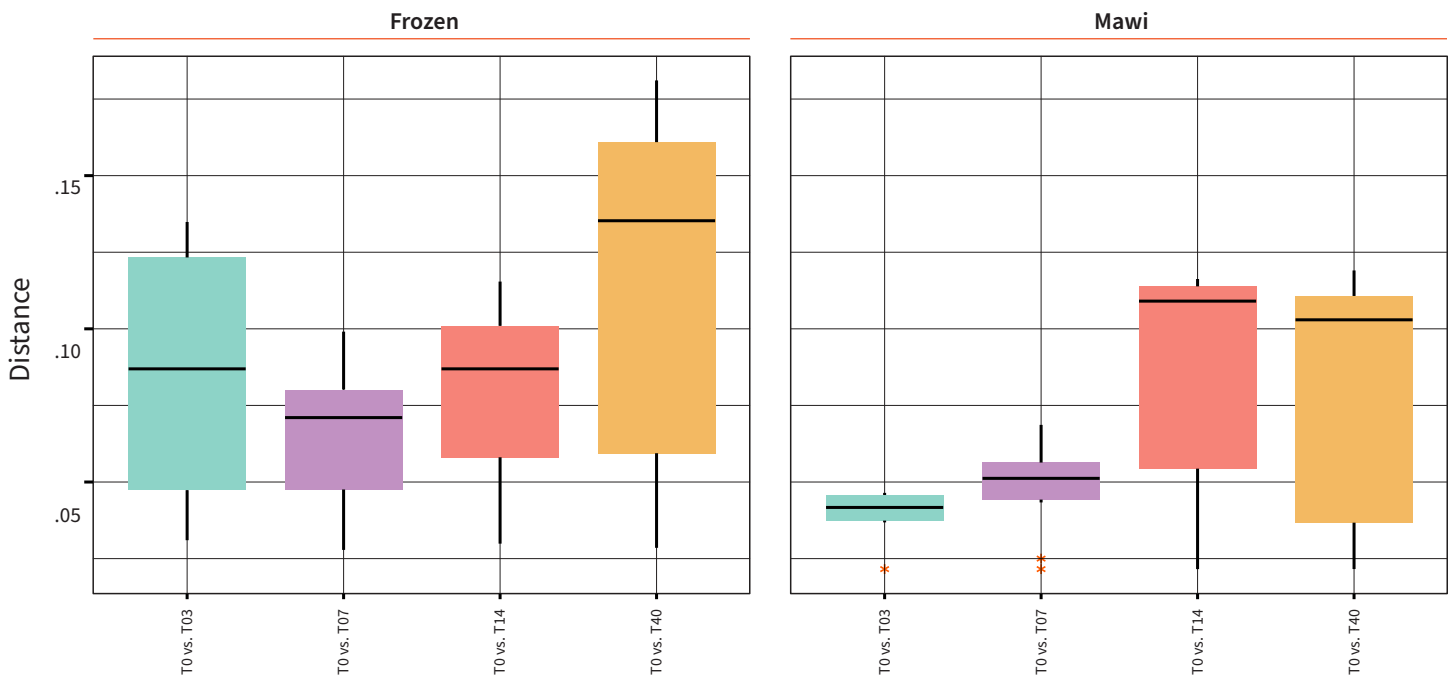
*The products shown contain the CE Mark and are approved for IVD use in countries recognizing this standard. In the USA, products are designated For Research Use Only and not for use in diagnostic procedures and will be labeled accordingly. DS-0091 (C) iSWAB-Microbiome Datasheet Effective Date : 2023-03-30

The Microbial Diversity/Profile of Fecal Samples from Point of Collection to Processing Remains Unaffected with **iSWAB-Microbiome** and is Much More Similar to Frozen Samples. Part II (Customer/ Third-Party Validated Data).

COMPARISON OF BRAY-CURTIS DISSIMILARITY BETWEEN TIME POINTS



COMPARISON OF BRAY-CURTIS DISSIMILARITY FOR THE 30 MOST PREVALENT SPECIES



Mawi DNA Technologies LLC
www.MawiDNA.com
 1252 Quarry Lane, Suite A | Pleasanton, CA 94566
 Tel: 510-256-5186 | US/Canada: 510-256-5186 | 855-DNA-SWAB

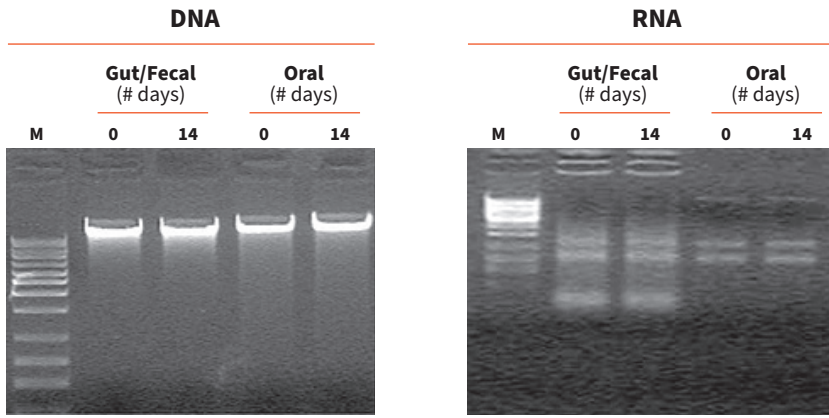
EC REP CEpartner4U www.cepartner4u.com
 Esdoornlaan 13 | 3951 DB | Maarn | The Netherlands



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 ISFDS-1.01

*The products shown contain the CE Mark and are approved for IVD use in countries recognizing this standard. In the USA, products are designated For Research Use Only and not for use in diagnostic procedures and will be labeled accordingly. DS-0091 (C) iSWAB-Microbiome Datasheet Effective Date : 2023-03-30

Microbial DNA and RNA Profiles from iSWAB-Microbiome

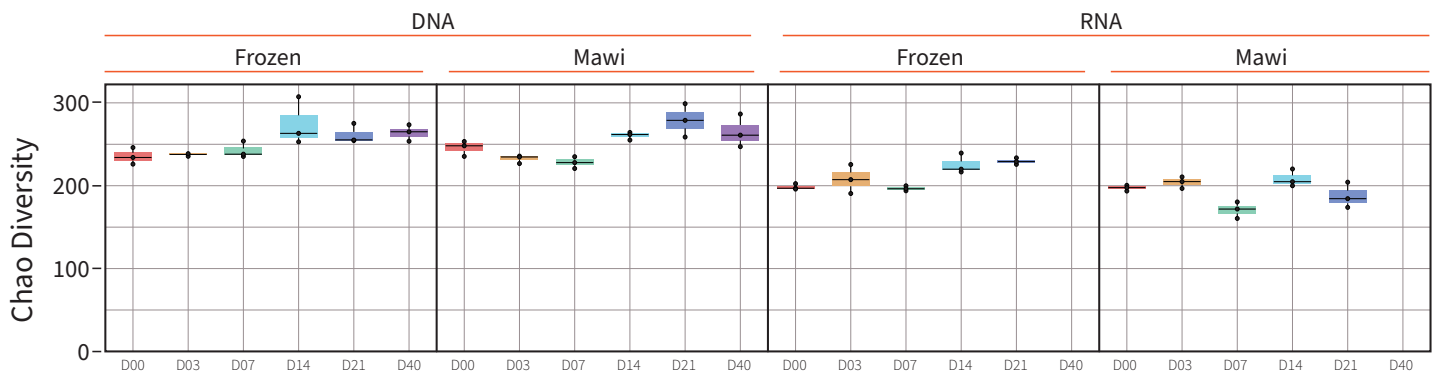


Left: Purified microbial DNA from iSWAB-Microbiome oral or gut/fecal pooled samples were normalized to 50 ng of DNA/well and loaded on 1% agarose (M: 1KB DNA ladder).

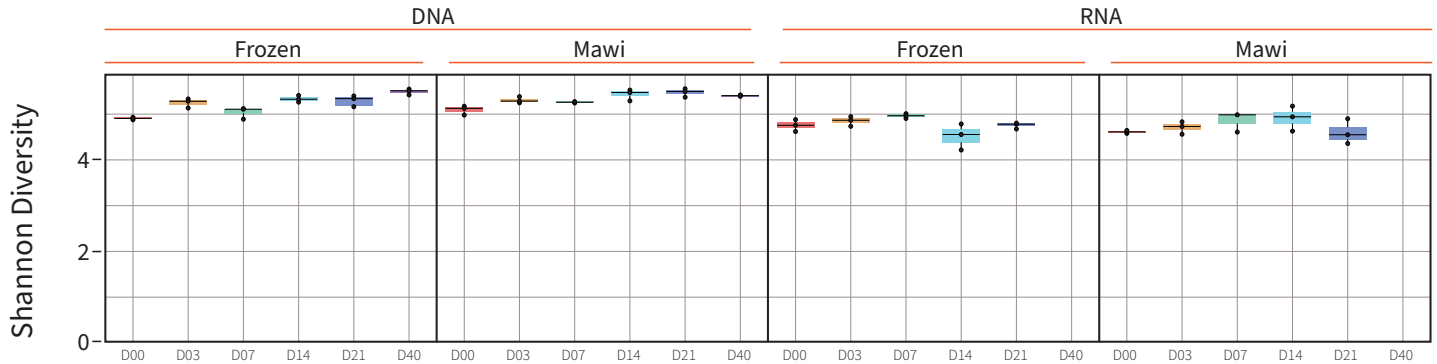
Right: Purified microbial total RNA with RNeasy mini kit from iSWAB-Microbiome oral or gut/fecal pooled samples were normalized to 20 ng/well and analyzed by gel electrophoresis (M: 1KB DNA ladder).

16s rRNA Sequencing Analysis of Fecal Microbial DNA & RNA from iSWAB-Microbiome at Room Temperature Storage vs. Frozen Samples for 40 Days

Chao Alpha Diversity Boxplots



Shannon Alpha Diversity Boxplots



This data was generated using shotgun sequencing platform from  COSMOSID[®] Unlocking The Microbiome

CUSTOMIZATION OPTIONS

- ✓ iSWAB-Microbiome can be customized using larger or smaller collection devices, depending on your sample size requirements.
- ✓ Other items which can be customized include IFU and product labeling.
- ✓ For more information, please contact sales@mawidna.com.



Mawi DNA Technologies LLC

www.MawiDNA.com

1252 Quarry Lane, Suite A | Pleasanton, CA 94566

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



CEpartner4U www.cepartner4u.com

Esdoornlaan 13 | 3951 DB | Maarn | The Netherlands



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 ISFDS-1.01

*The products shown contain the CE Mark and are approved for IVD use in countries recognizing this standard. In the USA, products are designated For Research Use Only and not for use in diagnostic procedures and will be labeled accordingly.

DS-0091 (C) iSWAB-Microbiome Datasheet Effective Date : 2023-03-30