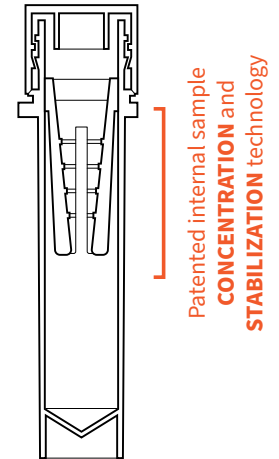


iSWAB™-RNA-v2

Collect, Concentrate, & Stabilize High-Quality RNA at Ambient Temperature

COLLECT • STABILIZE • CONCENTRATE • TRANSPORT • STORE

The iSWAB-RNAv2 device is a non-invasive technology for the collection, concentration, and stabilization of intact buccal cells or any mammalian cells collected with a swab or cytobrush allowing for real time ambient stabilization of total RNA from the point of collection to processing. The design of the iSWAB collection device allows for the maximum release of collected samples from multiple swabs or brushes into a single device, to achieve a more concentrated sample. Self collection or assisted collection can be achieved in less than 2 minutes and is suitable for all population segments including infants, toddlers, and elderlies.

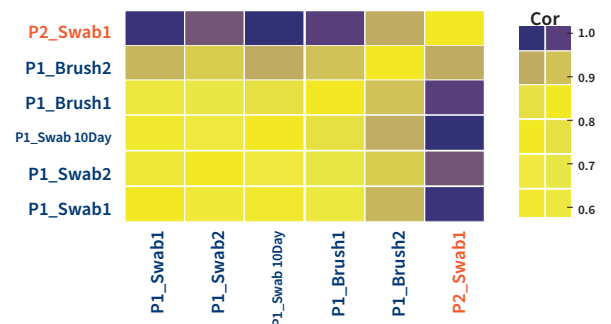


Applications

**REAL-TIME QUANTITATIVE PCR • REVERSE TRANSCRIPTION PCR
MICROARRAYS • NUCLEASE PROTECTION ASSAYS • RNA-SEQ
CDNA LIBRARY CONSTRUCTION • NORTHERN BLOT ANALYSIS**

- ✓ **SWAB-FREE SAMPLE TRANSPORT:** Decrease processing time without compromising sample integrity.
- ✓ **INCREASE PROCESS EFFICIENCY:** Extended shelf life stability (up to 4 weeks at room temperature, several years at -20 °C and -80 °C), reduced processing time, and minimal storage footprint.
- ✓ **HIGH-QUALITY RNA** for downstream applications such as RT-PCR, Microarray and RNA-seq for gene expression analysis.
- ✓ **ROOM-TEMPERATURE STABLE:** Eliminates cold chain requirements, reducing storage and transport costs.
- ✓ **SELF-COLLECTION OR ASSISTED COLLECTION IN <2 MINUTES:** Suitable for all population segments including infants, toddlers, and elderlies 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.

Buccal RNASeq Profile of



Experiment: Comparison of Person 1 and Person 2, and repeated buccal cells collection with iSWAB-RNA v2 of Person 1 by flocked swabs, or cytobrushes one day and after 10 days post-collection at room temperature storage. **RNA Extraction:** MagBio HighPrep™ Total RNA Plus Kit (Cat. Nos. HPTOR-R50, HPTOR-R100, HPTOR-R100x4). **Data Analysis:** The figure is a correlation matrix of the FPKM read counts for every gene expressed in the RNASeq data, clustered by similarity (Pearson correlation). **RNASeq Conditions:** 60 million single-end 50 base pair reads on an Illumina HiSeq using the Illumina TruSeq RiboZero stranded RNASeq kit.

The quality of RNA obtained is **compatible with** RNAseq-based applications

Different subjects' expression profiles can be detected with RNAseq from buccal cells **collected non-invasively**

No cold chain involvement: iSWAB-RNAv2 can stabilize buccal cells at RT for ≥10 days

Catalog No.	Description	Stabilizing Buffer
ISWAB-RNA-v2	iSWAB-RNAv2 Collection Kit,	1.0 mL/Tube
ISR2-T-1200-R	iSWAB-RNA2 Collection Device Rack,	1.0 mL/Tube x 50 Units
ISR2-T-1200	iSWAB-RNA2 Collection Device,	1.0 mL/Tube x 500 units

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web: www.fisherbiotech.com

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DS-0096 (B) iSWAB-RNA v2 Datasheet **Effective Date : 2022-05-09**