

We Bring The World Of Biotechnology To You



BUCCAL SWAB & SALIVA SAMPLING



DNA, RNA & Microbiome DNA

- *Collection*
- *Stabilization*
- *Isolation*



DNA/RNA Buccal Swabs

Collect High Purity Buccal Cell DNA and RNA.

Isohelix DNA/RNA Buccal Swabs are specially designed to give increased yields of buccal cell and genomic DNA and RNA. Together with the Isohelix range of Isolation and Stabilization kits, high yields of pure, intact DNA and RNA can be collected easily and quickly.



FEATURES:

- High yield, efficient DNA/RNA collection
- Unique swab matrix maximizes yields
- Non-invasive alternative to blood collection
- For human and veterinary use
- Easy to handle and quick to use

APPLICATIONS

- Research Genotyping
- Veterinary Genotyping & Diagnostics
- DNA Population Studies
- Hereditary Testing
- Forensics

And many more uses

Formats

Multiple formats are available, all with the unique swab matrix, a breakpoint on the shaft for easy swab head removal, sterile single or twin packaging, and ethylene oxide treatment.



SK-1S Swabs

Includes 5ml collection tube for storing the used swab head.

Swab head enclosed in collection tube with **Dri-Capsule** for instant stabilization



SK-2S Swabs

Includes 2ml collection tube and cap with special swab head release mechanism.

Swab head is fully separated from shaft, allowing for easier manipulation during isolation stage



Mini Swabs

Swabs with a smaller width, ideal for use with mice and other small animals. With a higher breakpoint, they can fit in smaller tubes that can be 96 racked.

Mini swab head has a width of 6mm compared to 8mm width of SK swabs

FORMATS

SK-1S - Swabs with 5ml collection tube and cap, 100/box

SK-2S - Swabs with 2ml collection tube and special cap, 100/box

SK-3S - Swabs wrapped individually, 250/box

SK-4S - Swabs wrapped in pairs, 500/box (250 pairs)

MS-01, MS-02, MS-03 - Mini swabs, varieties with collection tubes and single or twin packaging

RD-01 - Swabs with RapiDri stabilization pouch, 200/box



See all of our Isohelix products at www.bocascientific.com

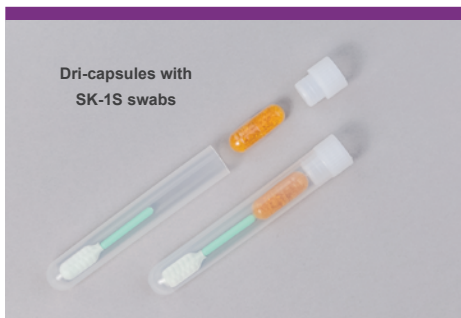
Buccal DNA/RNA Stabilization

Preserve DNA and RNA on Swabs.

For best results, samples should be stabilized during transit and storage if there is a delay greater than 1-2 days between collection and processing of samples. Our stabilization options are optimized for use with buccal swabs and preserve fully intact DNA or RNA.

FEATURES:

- Instant room temperature stabilization
- Easy-to-use in field and clinical settings
- Prevents cross-contamination risks

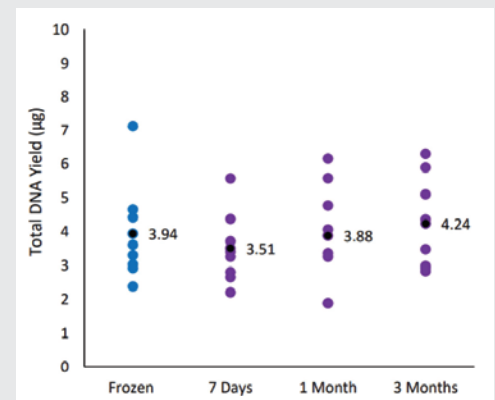


Dri-Capsules (SGC-50)

Silica capsules that dry SK-1S swabs for long-term stabilization.

- Stabilizes DNA for 3+ years
- For use with SK-1S swabs

RAPIDRI STABILITY



Scatter plot of total DNA yields from Isohelix swabs, either frozen at -20°C for 1 month or stored in RapiDri pouches for 7 days, 1 month or 3 months.



RapiDri DNA Swab Kit (RD-01)

Isohelix swab with stabilization pouch and barcode for shorter stabilization requirements.

- Stabilizes DNA for 3-6 months
- Economic option for shorter-term stabilization
- Water-repellant pouch also acts as a transport pack



DNA & RNA Stabilization Buffers

Buffers for complete stabilization of DNA and/or RNA, prefilled in 1ml tubes or in bulk.

- **BuccalFix (BFX)** - stabilizes DNA for 2+ years
- **BuccalFix RNA (RFSS)** - stabilizes DNA and RNA for up to 4 weeks
- **StoolFix (STF)** - stabilizes fecal microbiome DNA for up to 2 months

Buccal DNA Isolation

Extract High Yields of DNA from Buccal Swabs.

Isohelix DNA isolation kits are optimized for use with buccal swabs and ensure maximum, high purity yields of DNA. Kits with different chemistries are offered, so you can find the ideal kit for your application.

FEATURES:

- Extracts high yields of high purity DNA
- Optimized for use with buccal swabs
- No hazardous or solvent chemicals



Buccalyse DNA Release Kit (BEK-50)

One-step, one-tube rapid extraction of PCR-ready DNA.

- Extraction in under 20 minutes
- Ideal for qPCR

BPP-50 ISOLATION



2.2% agarose flash gel of whole DNA samples (diluted to 1/10) isolated using Buccal-Prep Plus kit from Isohelix buccal swabs. All swabs isolated show high molecular weight genomic DNA with no signs of fragmentation or shearing. No RNA contamination is seen.



BPP-50 Kit with all buffers included

Buccal-Prep & BuccalFix Plus DNA Isolation Kits

Precipitation-based kits with optimized chemistry for fast, efficient purification.

- Scalable and automation-friendly with a rapid protocol
- **Buccal-Prep Plus (BPP-50)** includes all reagents required for isolation
- **BuccalFix Plus (BFP-50)** is for swabs already stored in BuccalFix Buffer



Xtreme DNA Isolation Kit (XME-50)

Spin column-based kit for buccal swabs and saliva DNA, for more demanding applications.

- Extracts high molecular weight genomic DNA with minimal losses
- Manual or high throughput formats
- Isolated DNA is suitable for more demanding downstream applications

See all of our Isohelix products at www.bocascientific.com

GeneFix Saliva Collectors

Collect, Stabilize, and Transport High Purity Saliva DNA and RNA.

Isohelix GeneFix Saliva Collectors provide a complete solution for sampling saliva DNA, RNA, or microbiome DNA. The collectors are pre-filled with a buffer for instant room temperature stabilization. Samples are easily processed with the compatible GeneFix DNA isolation kits.

FEATURES:

- Pre-filled with stabilization buffer
- Robust tubes are suitable for transport
- Fast, easy collection
- Manual and automated formats
- Unique funnel design prevents spillage
- DNA yield over 100µg from 2ml saliva

GeneFix DNA/RNA Saliva Collectors

GeneFix DNA/RNA Collectors stabilize DNA for 5+ years and viral RNA for 5 days at room temperature, making them ideal for COVID-19 research and research in genetics.

FORMATS

GFX-01 - Collectors for 1ml samples

GFX-02 - Collectors for 2ml samples

GFX-03 - "Xtra Collect" for high yield 3ml samples

GFXA-01 - Assisted collectors with 2 foam swabs for 1ml samples

FDX-01 - Automated collectors for 1ml samples

FDX-02 - Automated collectors for 2ml samples

FDXA-01 - Assisted automated collectors for 1ml samples with 2 foam swabs

FDXA-02 - Assisted automated collectors for 2ml samples with 2 foam swabs

Saliva is delivered through detachable funnel, then the funnel is removed and the tube is securely sealed with screw cap



Robust tubes are specified to 95kPa for leak-proof mailing

Formats of GFX available for 1ml, 2ml, or 3ml samples; larger sample volumes provide higher yields

Assisted collectors include 2 foam swabs for donors who have difficulty delivering saliva

FDX collectors are high throughput-compatible with barcoded tubes, and caps that can be auto de-capped

GeneFix Saliva Collectors

Collect, Stabilize, and Transport High Purity Saliva DNA and RNA.

Isohelix GeneFix Saliva Collectors are also available for RNA and microbiome DNA, pre-filled with a buffer for instant room temperature stabilization and featuring the same tube and funnel design as the DNA/RNA Collectors.



RNA Saliva Collectors (RFX)

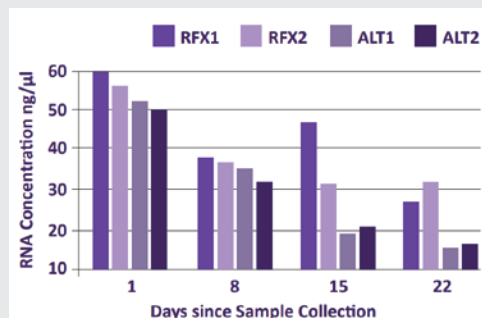
- Stabilizes mammalian RNA for 2 weeks
- Maintains high yield, high purity RNA
- Includes precipitation reagent and Proteinase K for processing



Microbiome DNA Saliva Collectors (MFx)

- Stabilizes microbiome DNA for at least 1 year
- Inexpensive alternative to freezing
- Free from trace human or bacterial DNA

RNA STABILITY



RNA concentration in GeneFix RNA Collectors and alternative collectors over 22 days.

GeneFix Saliva DNA Isolation Kits

GeneFix Saliva DNA Isolation Kits are compatible with GeneFix Saliva Collectors, so processing saliva samples is fast and simple. These kits provide high yields of high purity DNA suitable for virtually all downstream applications.



Saliva-Prep2 DNA Isolation Kit (GSPN)

Precipitation-based kit optimized for stabilized saliva with rapid and efficient isolation.

- Yields over 100μg from 2ml of saliva
- Economic, easy to use and extremely robust
- Delivers virtually RNA-free samples

A magnetic bead-based kit (GSM) and column-based kits (GSS and GMS) are also available.

See all of our Isohelix products at www.bocascientific.com

NEW! Salivalyse for PCR-ready DNA



GeneFix Salivalyse Direct-to-PCR Kit is designed for use with saliva samples stabilized with GeneFix DNA/RNA Saliva Collectors. This kit provides PCR-ready DNA with a rapid protocol and saves time and processing steps compared to traditional isolation kits.

FEATURES:

- Fast and easy one-step/one-tube method
- Optimized for PCR and qPCR
- No hazardous or solvent chemicals
- Only small volumes of sample needed for processing
- Reliable amplification of DNA



Gel shows high molecular weight, intact DNA following sample processing with Salivalyse, ready for downstream PCR & qPCR analysis.

For more Isohelix products, visit us at
www.bocascientific.com

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