

Buccal DNA Collection and Preservation Kit

Norgen's Buccal DNA Collection and Preservation Kit consists of 2 components:

- (1) Buccal DNA Collection and Preservation Reagent contained within tubes
- (2) Sterile polyester-tipped applicators for swab collection.

Buccal swabs are collected using the provided applicator, and the samples are then transferred into the Buccal DNA Collection and Preservation Reagent for storage and shipping.



The Buccal DNA Collection and Preservation Reagent is an aqueous storage buffer designed for rapid cellular lysis and subsequent preservation of nucleic acids from fresh specimens. The buffer prevents the growth of Gram-negative and Gram-positive bacteria and fungi, and also inactivates viruses allowing the resulting non-infectious samples to be handled and shipped safely. In addition, the buffer eliminates the need to immediately process or freeze samples and allows the samples to be shipped to centralized testing facilities at ambient temperature. The components of the buffer allow samples to be stored for two week under conditions where DNA degradation would occur normally. The kit is intended to be used in clinical laboratories with the ability to preserve samples for use in downstream diagnostic assays.

Buccal DNA Collection and Preservation Kit Benefits

Safe handling and shipping	The Buccal DNA Collection and Preservation Reagent prevents the growth of bacteria and fungi, and also inactivates viruses, allowing the resulting non-infectious samples to be handled and shipped safely.
No need to immediately process samples	The Collection and Preservation Reagent eliminates the need to immediately process or freeze samples. Samples are preserved at room temperature for up to 2 weeks, allowing for shipping at ambient temperature.
DNA preservation for up to 2 weeks at room temperature	Intact, biologically active DNA has been isolated from samples stored in the Buccal DNA Collection and Preservation Reagent for up to 2 weeks.
Ship buccal samples at room temperature	Samples stored in the Buccal DNA Collection and Preservation Reagent can be safely shipped at room temperature with no signs of DNA degradation.
Compatible with most DNA isolation methods	DNA can be isolated from the preserved samples using a number of different methods

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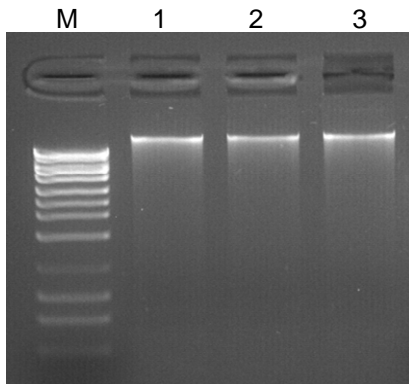


Figure 1. Stability of DNA after Two Weeks Storage at Room Temperature. Fresh buccal swabs were collected and placed into the tubes containing 400 μ L of the Buccal DNA Collection and Preservation Reagent. The swabs were then incubated at room temperature for two weeks. DNA was then isolated from the preserved samples using Norgen's Saliva DNA isolation Kit, and 15 μ L from the isolated 100 μ L DNA were loaded on 1% agarose gel. All of the triplicate samples (1 to 3) showed good integrity after the incubation period. M corresponds to Norgen's High Ranger DNA Ladder.

Norgen's Buccal DNA Collection and Preservation Contents

1. Buccal DNA Collection and Preservation Reagent
2. Sterile polyester tipped applicator
3. Zip-lock bags
4. Label sheet
5. Product Insert

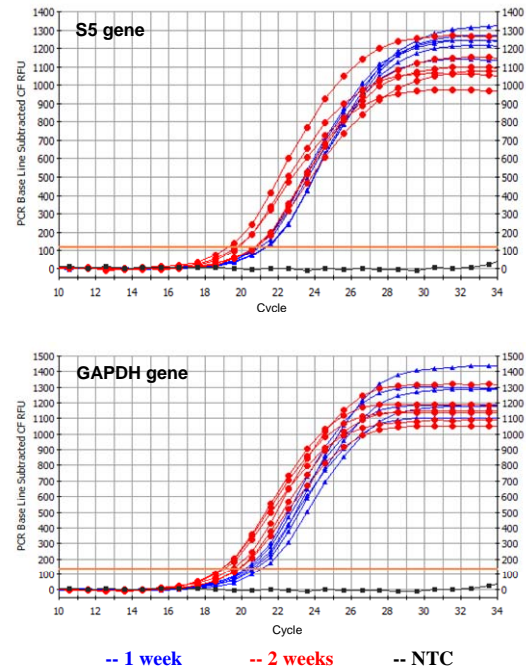


Figure 2. Amplification of both the S5 Gene and GAPDH Gene. Different buccal swabs were collected and preserved using Norgen's Buccal Swab DNA Collection and Preservation Kit. DNA was isolated after one and two weeks using Norgen's Saliva DNA Isolation Kit. Two microliters of the 100 μ L isolated DNA were used in a 20 μ L qPCR reaction using Norgen's SYBR Green/Fluorescein qPCR Master Mix with specific primers for both the S5 gene and GAPDH gene. As it can be seen, all the DNA templates were successfully amplified without any loss to the quality of the template.

Cat #	Description	Quantity
33900	Buccal DNA Collection and Preservation Kit	25 preps