

PanoHealth® Nucleic Acid Saliva Collection Kit

For RNA or DNA Analysis

Catalog #: PANO-SCNA

Instructions for Use
Last Revised Nov. 5th, 2020

Caution:
Extraordinary useful information enclosed



ISO 13485:2016

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I. INTRODUCTION

Whole saliva is a complex biological fluid containing mucus, proteins, enzymes, minerals, electrolytes, and antibacterial compounds. It has numerous important bodily functions and its chemical composition can be predictive of a number of disease states. In addition, saliva is easy to obtain and a robust specimen for many types of analyses, including specific proteins, antibodies, DNA, or other biomarkers. The PanoHealth® Nucleic Acid Saliva Collection Kit contains a Saliva Collector and a Stabilization Buffer that stabilizes DNA and RNA at the point of saliva collection. This kit is designed for reliable, non-invasive self-collection of a saliva sample that is optimized for downstream analysis of RNA and DNA. This product is for research use only. Please read the instructions carefully before starting your experiment.

II. MATERIAL PROVIDED

Component	10-Sample Kit	100-Sample kit
Saliva Collector	10	100
One-Step Nucleic Acid Stabilization Buffer	1 mL	10 mL
Microcentrifuge Tube	10	100

III. ADDITIONAL MATERIAL REQUIRED

1. Precision pipettes
2. Table-top centrifuge

IV. STORAGE

Upon receipt, the PanoHealth Nucleic Acid Saliva Collection Kit should be stored at room temperature. After collection, the sample should be stored at -20°C if not analyzing immediately.

V. PROTOCOL

1. Before collecting saliva, drink 4 ounces of cold water. Avoid brushing, flossing, or using any other oral hygiene products (e.g. using mouthwash, teeth whitening strips, etc.) for 45 minutes prior to saliva collection.
2. Wait 10 minutes.
3. Spit into the Saliva Collector. Required volume should be determined by the researcher and the intended downstream applications. A minimum volume of 100 µL saliva is suggested.
4. Mix the collected saliva at a 1:1 ratio with the One-Step Nucleic Acid Stabilization Buffer in the provided microcentrifuge tube.
5. Collected sample can be stored at 4°C for up to 8 hours before use or freeze at -20°C for long term storage.
6. When ready to analyze, centrifuge the sample using a benchtop centrifuge for 30s to pellet the debris. Pipet the supernatant without disturbing the pellet and continue the assay with the supernatant.

If proceeding to PCR analysis, the suggested dilution is 1:5 or 1:20, however different ratios may be used depending on the polymerase, master mix, primers, etc. being used and should be validated by the researcher.

VI. RNA ANALYSIS

Typical results of PCR analysis using a fluorescent probe and a specific primer to detect two specific regions within the novel coronavirus (SARS-CoV-2) RNA genome using the PanoHealth Nucleic Acid Saliva Collection Kit (PANO-SCNA). Whole saliva and purified RNA from a negative sample was run alone and spiked with SARS-CoV-2 RNA. Each sample was diluted 20x with dH₂O and tested using the COVID-19 High Throughput RT-PCR Nucleic Acid Detection Kit (cat #PCR-COVHT).



