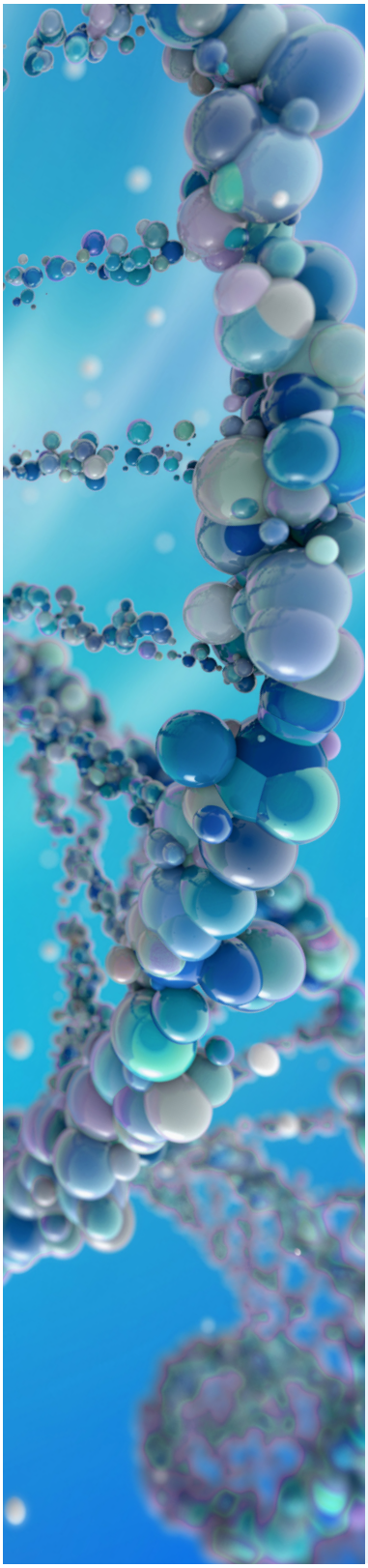


Saliva RNA Collection and Preservation Devices

CAT. RU53800, 53800

FOR SIMPLE AND NON-INVASIVE SALIVA COLLECTION AND PRESERVATION OF RNA AT AMBIENT TEMPERATURE

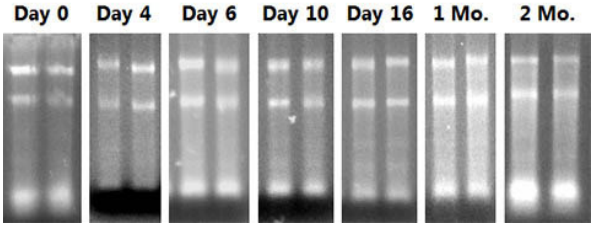
- Reliable and cost-effective
- Non-invasive, user-friendly sample collection and preservation in one convenient kit
- Preserved RNA is stable for up to 2 months at room temperature
- Compatible with most RNA isolation methods including Norgen's Saliva/Swab RNA Purification Kits (Cat. 69100, 69300).
- High quality RNA is suitable for sensitive downstream applications including RT-PCR, RT-qPCR, RNA sequencing and microarray
- Inactivates viruses including SARS-CoV-2 upon mixing
- Shipping accessories can be purchased separately
- CE-IVD marked version also available

NORGEN BIOTEK

ISO 9001:2015 CERTIFIED QUALITY · ISO 13485:2016 CERTIFIED QUALITY · GMP COMPLIANT

norgenbiotek.com

Advantages You Will Bring to Your Lab

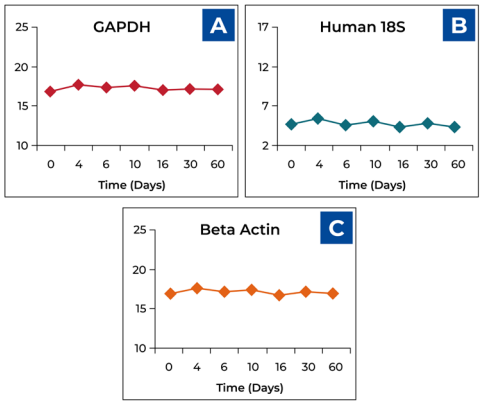


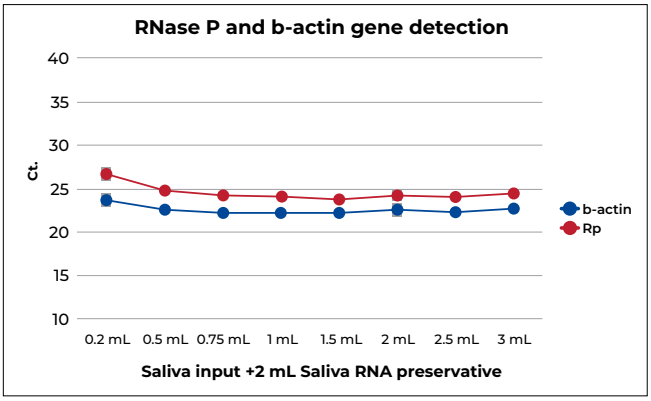
PRESERVE AND STABILIZE RNA FOR UP TO 2 MONTHS

Figure 1. Stability of RNA Preserved in Norgen's Saliva RNA Preservative at room temperature for up to 2 months. Saliva samples were collected from numerous donors and mixed, and then an equal volume of Norgen's Saliva RNA Preservative was added to the saliva. The preserved saliva was then stored at room temperature for up to 2 months. Saliva RNA was subsequently isolated at day 0, day 4, day 6, day 16, 1 month and 2 months from 0.25 mL of the preserved saliva sample using supplementary protocol associated with Norgen's Total RNA Purification Kit (Cat. 17200). For visual analysis, 7.5 µL from 50 µL elution was mixed with RNA loading dye and was run on a 1x MOPS agarose gel. RNA integrity was maintained after the saliva samples were stored up to 2 months at ambient temperatures in Norgen's Saliva RNA Preservative.

EXCELLENT STABILITY FOR GAPDH, 18S, AND BETA ACTIN TRANSCRIPTS

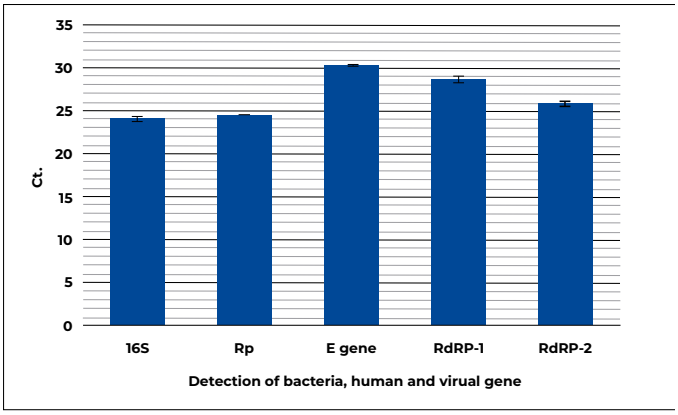
Figure 2. Stability of three housekeeping gene transcripts over a 2 month period. GAPDH, Human 18S rRNA and beta actin transcripts were monitored from saliva samples stored at ambient temperature with Norgen's Saliva RNA Preservative. RNA was isolated from 250 µL of preserved samples on day 0, day 4, day 6, day 10, day 16, day 30 and day 60 using Norgen's Total RNA Purification Kit (Cat. 17200). Next, 4 µL of elution was used in 20 µL of the real-time PCR reaction (SYBR Green I) using CFX96 TouchTM Real-Time PCR Detection System (Bio-Rad). All of the transcripts were preserved and stable over a 2 month period.





PRESERVE AND STABILIZE RNA OUTSIDE OF 1:1 RANGE

Figure 3. Norgen's Saliva RNA Preservative is able to successfully preserve saliva RNA samples when used outside of the ideal range of 1:1 at room temperature for 3 days. As the amount of saliva added to 2 mL of Saliva RNA Preservative increased from 0.2 mL to 3 mL, RNase P and β-actin transcripts were monitored for RNA stability using one-step RT-PCR. The results indicated that the variation of the saliva input volumes did not significantly influence the RNA transcript detection.



HIGHLY ACCURATE PCR OR RT-PCR DETECTION

Figure 4. Detection of Viral, Bacterial and Human RNA from Preserved Saliva Samples. Saliva (2 mL) collected from a single healthy donor was mixed with 2 mL of Saliva RNA Preservative. Norgen's COVID-19 positive control from the 2019-nCoV TaqMan RT-PCR Kit (E/RdRP gene) (Cat. TM67200) was spiked into the preserved saliva along with HeLa cells (10^6 cells /ml) to generate a contrived sample. From the contrived sample, total RNA was purified using Norgen's Total RNA Purification Kit (Cat. 17200) and 5 transcripts (16s rRNA, COVID-19 E gene, RdRP-P1 and P2 gene and RP) were analyzed by PCR or RT-PCR to detect viral, bacterial and human genes.

Technical Specifications

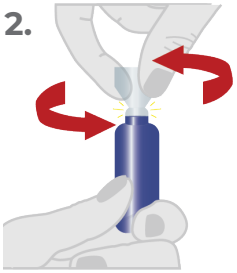
Description	Specifications
Volume of Saliva Collected	2 mL
Volume of Saliva-Preservative Mix	4 mL
Preservation Temperature	Room Temperature
Preservation Time	Up to 2 Months at Room Temperature

Donor Procedure

1.

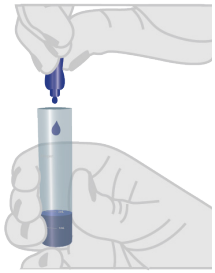
Spit into the collection funnel until the liquid saliva (not the bubbles) is in between the two lines in the collection tube (1-2 ml)

2.



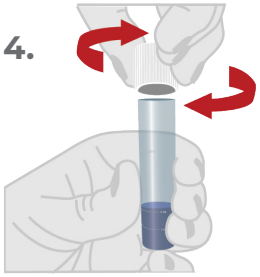
Twist and remove the tip of the preservative ampoule.

3.



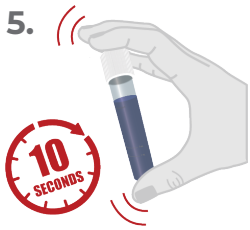
Squeeze the preservative ampoule to empty the entire contents into the collection tube..

4.



Screw on the cap of the collection tube to close it tightly.

5.



Shake well (for 10 seconds) to mix.

Technical Components

Description	Specifications
Individual Saliva RNA Collection and Preservation Devices	50
Donor Procedure Flowchart	1
Product Insert	1
Individual Saliva RNA Collection and Preservation Device Contents	
Saliva Collection Funnel and Collection Tube	1
Collection Tube Cap	1
Preservative Ampoule	1
Donor Instructions	1

Select Publications

Federica Rocchetti, et al. **"Expression Analysis of Circulating MicroRNAs in Saliva and Plasma for the Identification of Clinically Relevant Biomarkers for Oral Squamous Cell Carcinoma and Oral Potentially Malignant Disorders."** Cancers, vol. 16, no. 17, Multidisciplinary Digital Publishing Institute, Aug. 2024, pp. 2990–90, https://doi.org/10.3390/cancers16172990.

Ordering Information

Description	Devices	Cat. #
Saliva RNA Collection and Preservation Devices	50	RU53800
Saliva RNA Collection and Preservation Devices DX CE	50	53800

Related Products

Description	Prep Size	Cat. #
Saliva/Swab RNA Purification Kits	2 x 96-Well Plate	69300
Saliva/Swab RNA Purification Kits	50 Prep	69100
Norgen's Next Generation Sequencing Services	Call 1-866-Norgenb or Visit norgenbiotek.com	

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