EZCollect Saliva RNA Device

CAT. RU69800

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

- Reliable and cost-effective with self-release & self-contained device.
- 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
- High quality RNA is suitable for sensitive downstream applications including RT-PCR, RT-qPCR, RNA sequencing, microarray, etc.
- Inactivates viruses including SARS-CoV-2 upon mixing
- Shipping accessories can be purchased separately

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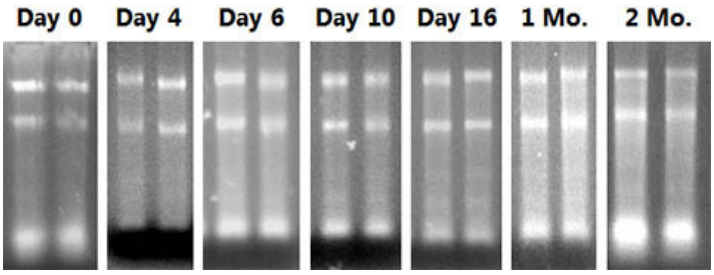
Advantages You Will Bring to Your Lab

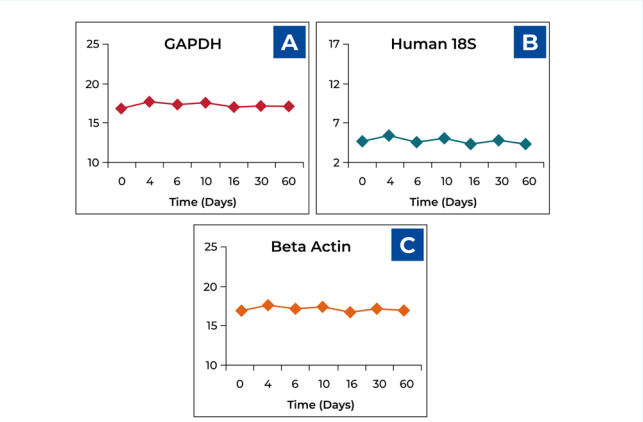


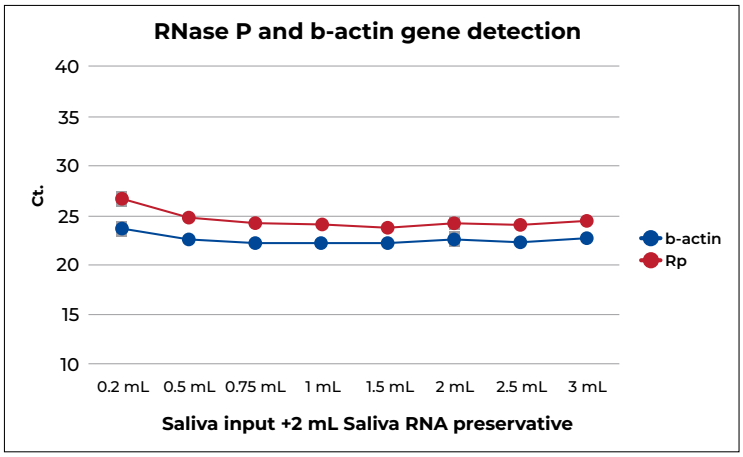
PRESERVE AND STABILIZE RNA FOR UP TO 2 MONTHS

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

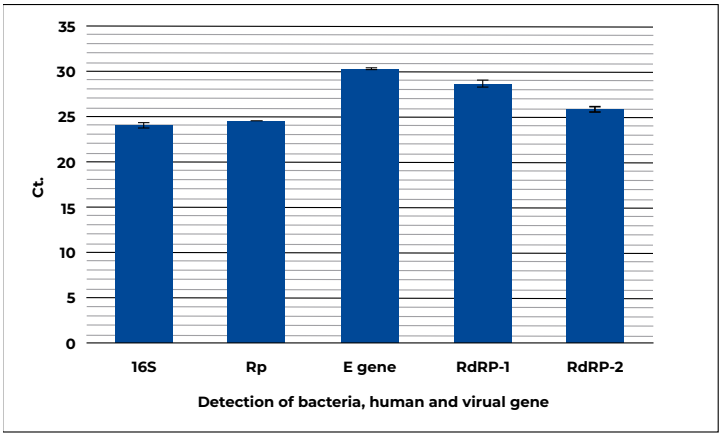
Figure 2. Stability of three housekeeping gene transcripts over a 2 month period. GAPDH, Human 18S rRNA and beta actin transcripts were monitored from saliva samples stored at ambient temperature with Norgen's Saliva RNA Preservative. RNA was isolated from 250 µL of preserved samples on day 0, day 4, 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.





TOLERATES VARIATIONS IN SALIVA VOLUME

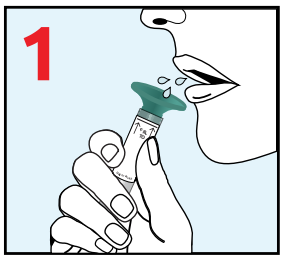
Figure 3. Norgen's Saliva RNA Preservative is able to successfully preserve saliva RNA samples when used outside of the ideal range of 1:1 at room temperature for 3 days. As the amount of saliva added to 2 mL of Saliva RNA Preservative increased from 0.2 mL to 3 mL, RNase P and β-actin transcripts were 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

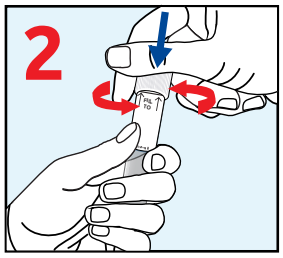
Figure 4. Detection of Viral, Bacterial and Human RNA from Preserved Saliva Samples. Saliva (2 mL) collected from a single healthy donor was mixed with 2 mL of Saliva RNA Preservative. Norgen's COVID-19 positive control from the 2019-nCoV TaqMan RT-PCR Kit (E/RdRP gene) (Cat. TM67200) was spiked into the preserved saliva along with HeLa cells (106 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.

SIMPLE COLLECTION PROTOCOL



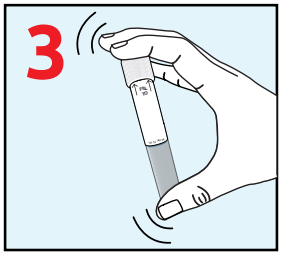
Deposit saliva into the collection tube up to the indicated fill line.

If you notice excess bubbles, eliminate them by gently tapping the tube on a hard surface.



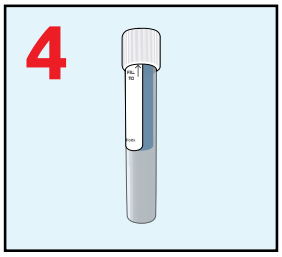
Remove the collection funnel. cap the collection tube by pushing down and twisting until secured, and the blue saliva RNA preservative will be released.

Discard or recycle the collection funnel.



Shake well for 10 seconds to mix the saliva with the blue saliva RNA preservative.

The saliva sample is preserved and pathogens & viruses, including SARS-CoV-2, are now inactivated.



The collection tube, containing the saliva sample is ready for transport.

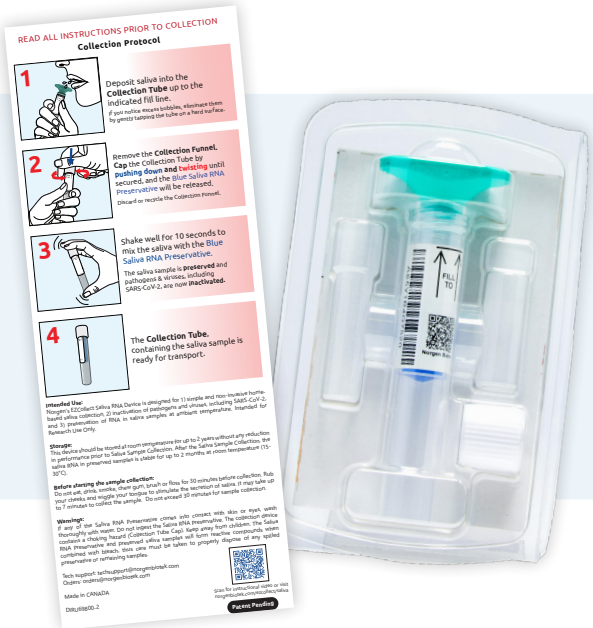
ALL IN ONE KIT

1 x Saliva Collection Funnel

1 x Collection Tube containing Norgen's saliva RNA Preservative

1 x Collection Tube Cap

1 x Donor Procedure Flowchart



SELECT PUBLICATIONS

Publication Title	Authors	Journal	Year
Favipiravir, lopinavir-ritonavir or combination therapy (FLARE): a randomised, double blind, 2x2 factorial placebo-controlled trial of early antiviral therapy in COVID-19	David M Lowe, Li-An K Brown, Kashfia Chowdhury, Stephanie Davey, Philip Yee, Felicia Ikeji, Amalia Ndoutoumou, Divya Shah, Alexanderw Lennon, Abhulya Rai, Akosua A Agyeman, Anna Checkley, Nicola Longley, Hakim-Moulay Dehbi, Nick Freemantle, Judith Breuer, Joseph F Standing, FLARE Investigators	medRxiv	2022
Matrix Metalloproteinases and Their Tissue Inhibitorsin the Pathogenesis of Periodontal Diseasesin Type 1 Diabetes Mellitus	Dmitry Domenyuk, Fuad Samedov, Sergey Dmitrienko, Oxana Anfinogenova,Tamara Glizhova, Diana Lysan, Christina Nuzhnaya	Archiv Euro Medica	2019

Ordering Information

Description	Devices	Cat. #
EZCollect Saliva RNA Device	50	RU69800

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