

# Saliva DNA Isolation Kit

CAT. RU45400, Dx45400

FOR THE RAPID PURIFICATION OF HIGH-QUALITY DNA FROM PRESERVED AND FRESH SALIVA SAMPLES

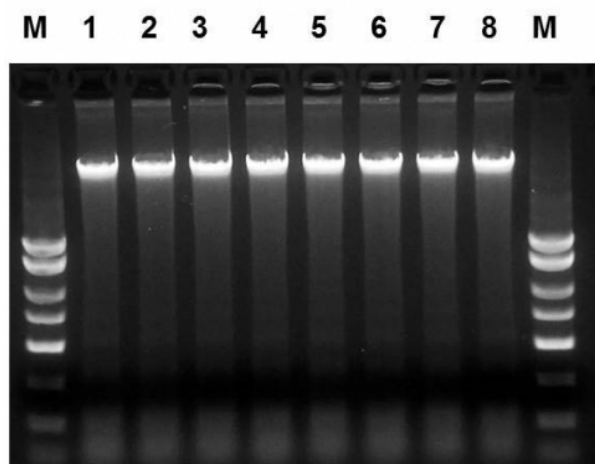


- ✓ Fast and easy processing using a rapid spin-column format
- ✓ Isolate high quality genomic DNA from fresh or preserved saliva samples
- ✓ Compatible with preserved saliva samples collected using Norgen's Saliva DNA Collection and Preservation Devices (Cat. RU49000)
- ✓ High quality DNA is Suitable for sensitive downstream applications including, PCR, qPCR, Southern Blot analysis, sequencing and microarray analysis



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# Advantages You Will Bring to Your Lab

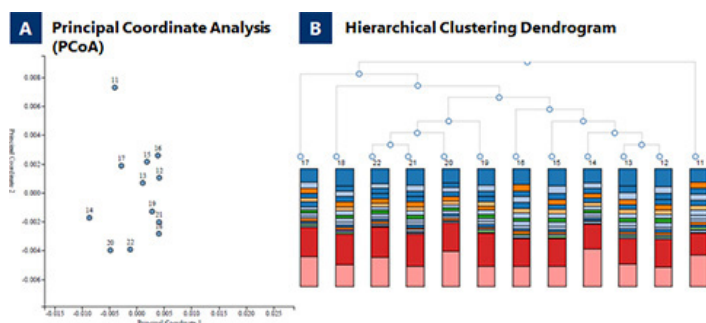
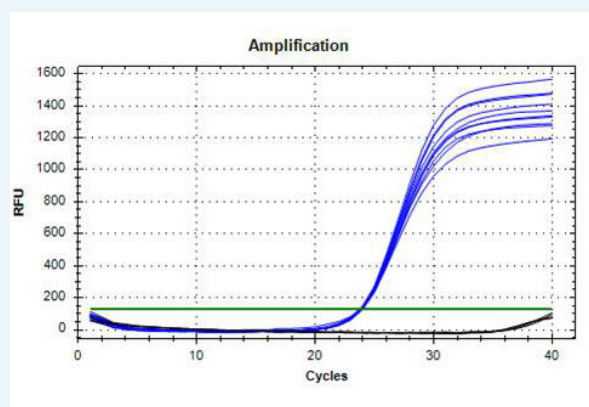


## HIGH QUALITY AND QUANTITY OF DNA

**Figure 1. High Quality and Yield of DNA from Saliva Samples.** Total DNA was isolated from 250  $\mu$ L of eight different fresh saliva samples using Norgen's Saliva DNA Isolation Kit (Lanes 1-8). For evaluation, 10  $\mu$ L of each 100  $\mu$ L DNA elution was run on a 1.2 % agarose gel. Note the high yield and quality of the DNA in all lanes. Lane M: Norgen's Fast runner 1kb DNA Ladder (Cat. 12800).

## CONSISTENT ISOLATION OF HIGH QUALITY DNA

**Figure 2. Real-time PCR Consistency from Saliva Samples.** Norgen's Saliva DNA Isolation Kit was used to isolate DNA from 250  $\mu$ L samples of fresh saliva. Ten samples were used from the same donor. From the 100  $\mu$ L elution, 5  $\mu$ L of saliva DNA was directly mixed to real-time PCR master mix (total reaction volume 20  $\mu$ L), and the real-time PCR reaction was performed. The GAPDH gene was successfully amplified from the different samples without any inhibition and at the same Ct, indicating the isolation consistency and the excellent quality of saliva DNA for downstream applications.



## PERFECT COMPATIBILITY WITH SALIVA PRESERVED USING NORGENS TECHNOLOGY

**Figure 3. Illumina MiSeq 16s rRNA metagenomics data from saliva samples preserved for over 6 years using Norgen's Saliva DNA Collection and Preservation Devices (Cat.49000).** The saliva DNA was isolated using Norgen's Saliva DNA Isolation Kit (Cat. RU45400) from saliva that had been preserved for various periods of time up to 6 years at room temperature. A) Principal Coordinate Analysis of 12 saliva microbiomes showing differences in the distribution of taxonomic classifications between samples up to kingdom level. B) Hierarchical clustering of 12 saliva microbiomes based on genus-level classifications, including a bar chart showing the relative abundance of genus-level classifications for each sample in the dendrogram.



## Technical Specifications

Description	Specifications
Maximum Saliva Input	0.5 mL Preserved Saliva, 0.25 mL Fresh Saliva
Average Yield from 0.25 mL of Saliva*	3 - 7 µg
Average Purity (OD260/280)	1.7 - 2.1
Time to Complete 10 Purifications	30 Minutes

\* Average yield will depending on the donor

## Select Publications

Dai, Jiahui, et al. **“Exploiting the Potential of Spherical PAM Antenna for Enhanced CRISPR-Cas12a: A Paradigm Shift toward a Universal Amplification-Free Nucleic Acid Test Platform.”** *Analytical Chemistry*, vol. 97, no. 2, Jan. 2025, pp. 1236–45. ACS Publications, <https://doi.org/10.1021/acs.analchem.4c04871>.

Kamalakannan, Dhanyashri, et al. **“Association of MSX1 Gene Polymorphisms and Maxillary Lateral Incisor Agensis in Non-Syndromic Cleft Lip and/or Palate Individuals.”** *Journal of Oral Biology and Craniofacial Research*, vol. 15, no. 2, Mar. 2025, pp. 440–43. ScienceDirect, <https://doi.org/10.1016/j.job-cr.2025.02.003>.


Pagliaro, Andrea, et al. **“Genetic Profiling and Performance Optimization in Elite Combat Sport Athletes: A Cross-Sectional Study Based on Total Genetic Score Analysis.”** *Genes*, vol. 16, no. 4, Apr. 2025, p. 461. [www.mdpi.com](http://www.mdpi.com), <https://doi.org/10.3390/genes16040461>.



Serrano-González, Joseline, et al. "After an Initial Hermansky–Pudlak Syndrome Clinical Diagnosis, Molecular Testing Reveals Variants for Oculocutaneous Albinism Type 1B: A Case Report." Molecular Genetics & Genomic Medicine, vol. 12, no. 7, 2024, p. e2493. Wiley Online Library, <https://doi.org/10.1002/mgg3.2493>.

Zhu, Fang, et al. "CRISPR/Cas12a-Calibrated Biosensor for Accurate Detection of Low-Frequency Single Nucleotide Variants via Loop-Assisted Adjustable Entropy-Driven Catalytic Reaction." Sensors and Actuators B: Chemical, vol. 437, Aug. 2025, p. 137755. ScienceDirect, <https://doi.org/10.1016/j.snb.2025.137755>.

## Ordering Information

Description	Preps	Cat. #
Saliva DNA Isolation Kit	50 Preps	RU45400
Saliva DNA Isolation Kit DX 	50 Tubes	DX45400

### Order Today!

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### Related Products

Description	Prep Size	Cat. #
Saliva DNA Collection and Preservation Devices	50 Devices	RU49000
Saliva DNA Isolation Kit (Magnetic Bead System)	50 Prep	RU55400
Norgen's Next Generation Sequencing Services	Call 1-866-Norgenb or Visit <a href="https://norgenbiotech.com">norgenbiotech.com</a>	

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APPLICATION







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