

REF	G2MBR4-0593	50 Tests
	G2MBR4-0594	250 Tests



Saliva DNA Extraction Kit

Intended Use

The SpiNXT Saliva DNA Extraction Kit is intended for the extraction of DNA from human saliva or buccal swab samples.

Intended User

The SpiNXT Saliva DNA Extraction Kit is intended for use by molecular biologists or research laboratory professionals.

Test Principle

The SpiNXT Saliva DNA Extraction Kit utilizes a proprietary combination of enzymes, buffers, and resins to extract DNA from saliva or buccal swab samples. The unique formulation of the kit enables efficient lysis of cells in saliva or buccal swabs, removal of inhibitors, and purification of high-quality DNA. The resulting DNA is suitable for downstream molecular applications, such as PCR, qPCR, and sequencing.

Summary

The SpiNXT Saliva DNA Extraction Kit is a proprietary solution designed for the efficient extraction of high-quality DNA from saliva or buccal swab samples. Purification requires no phenol/chloroform extraction or alcohol precipitation, involves minimal handling and simple centrifugation processing which completely removes contaminants and enzyme inhibitors, such as proteins and divalent cations. The kit is designed to efficiently isolate genomic DNA from saliva or buccal swab samples.

Storage, Operating Conditions and Stability

- The kit has a shelf life of 18 months from the date of manufacturing.
- The test kit and its component are stable until the expiration date mentioned on the kit box.
- All the kit components is shipped and stored at 15°C to 25°C.

Reagents Provided

Table 1a. (For 50 Tests)

Kit Contents	Kit Content Code	Kit Content Quantity G2MBR4-0593
Buffer SLB	G2MBR3-1977-1	1 X 15 ml
Buffer SW1	G2MBR3-1978-1	1 X 12 ml
Buffer SW2	G2MBR3-1979-1	1 X 12 ml
Proteinase K	G2MBR3-1981-1	1 X 22 mg
Protease Dissolve Buffer	G2MBR3-1982-1	1 X 3 ml
Buffer AE	G2MBR3-1983-1	1 X 7 ml

Consumables Provided

Table 2b. (For 250 Tests)

Kit Contents	Kit Content Quantity G2MBR4-0594
Mini Column	2 X 125 Nos.
Collection Tube	2 X 125 Nos.

Materials Required but Not Provided

- Water bath or Heat block
- Micropipettes (Adjustable)
- Disposable barrier (Filter) pipette tips
- 1.5 ml microcentrifuge tubes
- Table top microcentrifuge
- Molecular biology grade ethanol (96-100%)
- Personal protective equipment (Aprons, disposable gloves, goggles etc).
- 1X PBS

Consumables Provided

Table 1b. (For 50 Tests)

Kit Contents	Kit Content Quantity G2MBR4-0593
Mini Column	1 X 50 Nos.
Collection Tube	1 X 50 Nos.

Reagents Provided

Table 2a. (For 250 Tests)

Kit Contents	Kit Content Code	Kit Content Quantity G2MBR4-0594
Buffer SLB	G2MBR3-1977-2	1 X 60 ml
Buffer SW1	G2MBR3-1978-2	1 X 60 ml
Buffer SW2	G2MBR3-1979-2	2 X 30 ml
Proteinase K	G2MBR3-1981-2	1 X 110 mg
Protease Dissolve Buffer	G2MBR3-1982-2	1 X 7 ml
Buffer AE	G2MBR3-1983-2	1 X 30 ml

△ Instructions Before Use

- Use preheated Buffer AE for efficient DNA yield.
- Use sterile 1.5 ml microcentrifuge tubes.
- Dilute Buffer SW1 & SW2 with an appropriate amount of molecular biology grade ethanol (96-100%) as shown on label and store at room temperature.
- Add Protease Dissolve Buffer to the Proteinase K, final concentration should be 20 mg/ml. For long term storage, the unused portion of the solution can be stored in aliquots at -20°C until needed.

Protocol

A. DNA Purification from Saliva Sample

- 1) 200 µl of saliva sample was transferred into a 1.5 ml microcentrifuge tube (If necessary, adjust the volume to 200 µl with 1X PBS).
- 2) Add 20 µl Proteinase K and 200 µl Buffer SLB. Mix for 10 sec by short vortexing and incubate at room temperature for 10 min.
- 3) Add 200 µl of chilled molecular biology grade ethanol (96-100%). Leave the tubes at room temperature for 5 min, followed by manually creating a vortex by striking the tube forward and down with your finger and thumb.
- 4) Pipette the mixture on to the Mini Column, Centrifuge at 10,000xg for 1 min. Discard the Collection Tube with flowthrough.

- 5) Place the Mini Column into a fresh Collection Tube (2 ml) and add 500 μ l Buffer SW1. Centrifuge for 1 min at 10,000xg. Discard the flowthrough.
- 6) Place the Mini Column back into the collection tube (2 ml) and add 500 μ l Buffer SW2. Centrifuge for 1 min at 10,000xg and discard the flowthrough.
- 7) Repeat step 6.
- 8) Dry spin: Centrifuge the tube one more time at full speed or 20,000xg for 2 min.
- 9) Place the column into a fresh 1.5 ml microcentrifuge tube and apply 50°C pre-warmed 40-100 μ l Buffer AE directly to the center of the silica membrane. Incubate at room temperature (18-25°C) for 3-5 min. Centrifuge at 6000xg for 1 min.
- 10) The purified DNA sample can be stored at 4°C for a few days. It is recommended that DNA samples be placed at -20°C or -80°C for long-term storage.

B. DNA Purification from Swabs

- 1) To collect a sample, scrape the swab 5-6 times against the inside cheek.
- 2) Swirl the swab for 30-60 secs in 1-2 ml of 1X PBS.
- 3) Proceed with step 1 of DNA purification from saliva sample.

Symbols for Use in the Labeling	
Symbols	Definition
	KEEP AWAY FROM SUNLIGHT
	TEMPERATURE LIMIT
	RESEARCH USE ONLY
	UPWARD
	CONSULT INSTRUCTIONS FOR USE
	BATCH CODE
	CATALOGUE NUMBER
	USE BY DATE
	DATE OF MANUFACTURE
	MANUFACTURER
	CONTAINS SUFFICIENT FOR <n> TESTS
	CAUTION
	DO NOT USE IF PACKAGE IS DAMAGED



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