High-Q™-Spin-Column Saliva Genomic DNA Purification Kit

Ordering info

TBK0150, 3 reactions (sample)

TBK0151, 50 reactions

TBK0152, 200 reactions

Description

High-Q™ Spin-Column Saliva Genomic DNA Purification Kit is a silica-membrane-based DNA purification kit to obtain genomic DNA from saliva with high quality and purity. Suitable for human and animal saliva.

Features

- High yield and purity, 2-20 µg depends on patient, A260/A280 ~1.8.
- No phenol extraction.
- Fast and easy protocol.

Applications

DNA obtained is suitable for downstream molecular biology applications such as PCR, enzymatic digestion for cloning or Southern, genotyping, etc.

Quality Control

DNA isolation from human saliva is checked by: integrity (agarose gel electrophoresis), quantity and quality (A260/280= 1.8 ± 0.2).

Kit Components

Components	TBK0151	TBK0152
Spin Columns	50	200
Collection Tubes	100	400
PBS 1x pH7.4	80 mL	250 mL
BS Buffer	15 mL	45 mL
Proteinase K	30 mg [a]	3 x 30 mg
WB1 Buffer	20 mL[b]	70 mL[c]
WB2 Buffer	8 mL[d]	24 mL[e]
Elution Buffer	15 mL	25 mL

Order Info Kit Components: *Spin Columns (TBM0010) | Collection Tubes (TBM0020) | BS Buffer (TBB0505) | PBS (TBB0360) | Proteinase K (TBZ0305) | WB1 Buffer (TBB0511) | WB2 Buffer (TBB0512) | Elution Buffer (TBB0510).*

Before its use:

[a] To prepare a 20 mg/mL solution, spin Proteinase K tube and add 1.5 mL Water (*Molecular Biology Grade*). Store Proteinase K solution obtained in aliquots at -20°C.

[b] Add 12 mL absolute ethanol and mix well.

[c] Add 42 mL absolute ethanol and mix well.

[d] Add 32 mL absolute ethanol and mix well.

[e] Add 96 mL absolute ethanol and mix well.

Storage

Store the kit at 25°C.

Store Proteinase K at 2-8°C (short storage) or -20°C (long storage).

Material required (not supplied)

- RNAse A (CAS 9001-99-4).
- Ethanol (CAS 64-17-5).
- Tubes (1.5 mL, 2 mL).

PROTOCOL

I. SALIVA SAMPLE COLLECTION

1. Transfer **1 mL of Saliva** in 2 mL tube.

   Spit several times into a sterile container. Avoid to drag nasopharyngeal secretions.

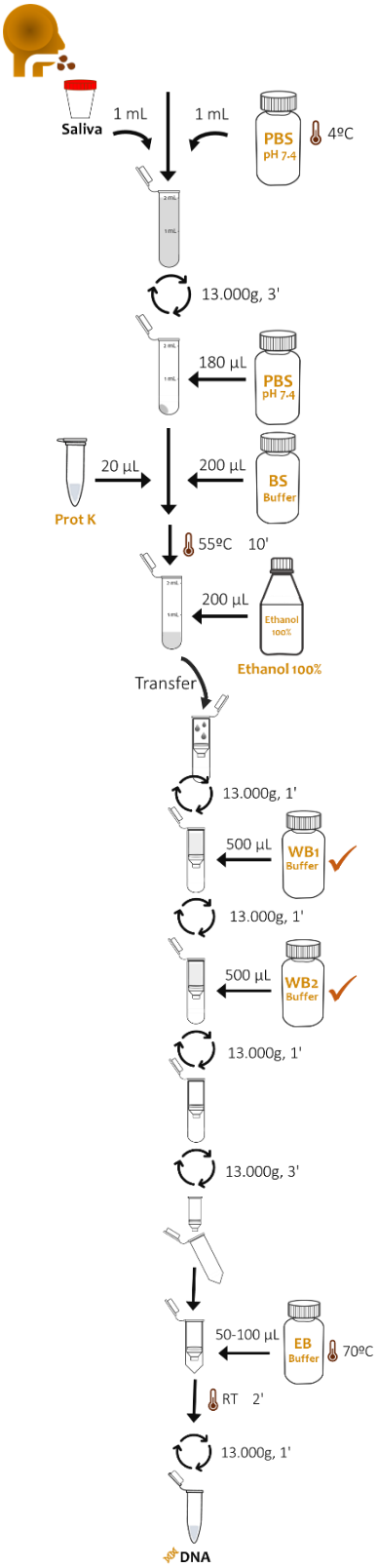
2. Add **1 mL Cold PBS 1x pH 7.4** and mix well.
3. Centrifuge at 13.000 g for 3 minutes. Remove the supernatant.
4. Resuspend the cell pellet in **180 µL PBS 1x pH 7.4** by vortex for 10-15 seconds.

II. DNA PURIFICATION

1. *Optional, if RNA-free preparation is required: Add* **4 µL RNAse (100 mg/mL).**
2. Add **20 µL Proteinase K** and **200 µL BS Buffer**. Mix by pipetting until homogenous solution is observed.
3. Incubate at 55°C for 10 minutes.
4. Add **200 µL Absolute Ethanol** and mix vigorously by vortex for 20 seconds.
5. Transfer the mix to a Spin Column placed into a Collection Tube.
6. Centrifuge at 13.000 g for 1 minute and discard the flow-through.
7. Place the Spin Column into the Collection Tube, add **500 µL WB1 Buffer.**
8. Centrifuge at 13.000 g for 1 minute and discard the flow-through.
9. Place the Spin Column into the Collection Tube, add **500 µL WB2 Buffer.**
10. Centrifuge at 13.000 g for 3 minutes and discard the flow-through.
11. To dry Spin Column, place the Spin Column into the Collection Tube and centrifuge again at 13.000 g for 1 minute.
12. Place the Spin Column into a clean 1.5 mL Tube.
13. Add **50-100 µL prewarmed Elution Buffer** or **Water** (Molecular Biology Grade) to elute purified DNA.

    Prewarm Elution Buffer or Water at 70°C.

14. Incubate at room temperature, 2 minutes.
15. Centrifuge at 13.000 g for 1 minute.
16. Check DNA quality on agarose electrophoresis gel and quantity by spectrophotometry.
17. Store at -20°C.



✓ *Ethanol has been added.*