

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

Ordering info

TBK0150-3, 3 reactions (sample)

TBK0150-10, 10 reactions

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 - 2.0; A260/A230 ~1.8 - 2.0.
- 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; A260/A230 ~1.8 - 2.0).

Kit Components

Components	TBK0150-10	TBK0151	TBK0152
High-Q™ Spin Columns	10	50	200
Collection Tubes	10	50	200
BS Buffer	2 x 1.5 mL	15 mL	45 mL
Proteinase K ^a	10 mg	30 mg	3 x 30 mg
Proteinase K Resuspension Buffer	1 mL	1.5 mL	3 x 1.5 mL
WB1 Buffer	3 x 2 mL	12 mL ^b	48 mL ^c
WB2 Buffer	10 mL	8 mL ^d	30 mL ^e
Elution Buffer	2 mL	15 mL	25 mL

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

For references TBK0150-10 and TBK0150-3, all buffers are ready to use

Before its use:

^a To prepare a 20 mg/mL Proteinase K (PK) solution, spin down the Proteinase K tube and add the Resuspension Buffer according to the label instructions. Store the Proteinase K solution at -20 °C.

^b Add 18 mL absolute ethanol and mix well.

^c Add 72 mL absolute ethanol and mix well.

^d Add 32 mL absolute ethanol and mix well.

^e Add 120 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)

- Saliva Stabilization Solution (TBB0497).
- Ethanol (CAS 64-17-5); Isopropanol (CAS 67-63-0).

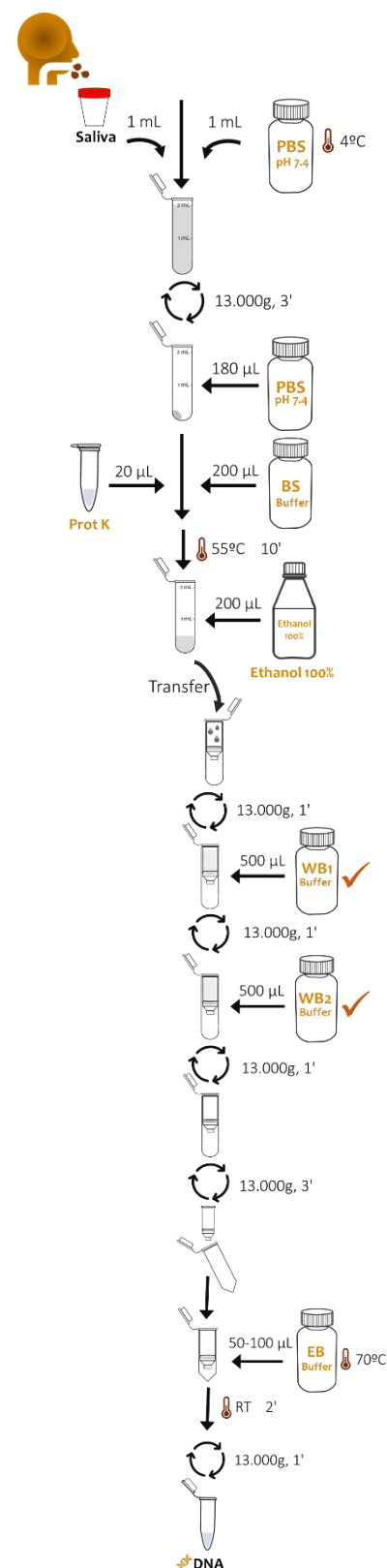
PROTOCOL

I. SALIVA SAMPLE COLLECTION

1. Add 0.4-0.6 mL of saliva to the **Saliva Stabilization Solution (TBB0497)**.
2. Shake briefly to mix thoroughly.
3. Store at room temperature or proceed to DNA purification.

II. DNA PURIFICATION

1. Transfer 600 μ L of saliva stabilization sample to a 1.5 mL tube and add **20 μ L Proteinase K** and **200 μ L BS Buffer**. Mix by pipetting until homogenous solution is observed.
2. Incubate at 55°C for 15 minutes.
3. Add **800 μ L Isopropanol** and mix vigorously by vortex.
4. Transfer the mix to a High-Q™ Spin Column placed into a Collection Tube.
5. Centrifuge at 13,000 x g for 1 minute and discard the flow-through.
6. Place the High-Q™ Spin Column into the Collection Tube, add **500 μ L WB1 Buffer**.
7. Centrifuge at 13,000 x g for 1 minute and discard the flow-through.
8. Place the High-Q™ Spin Column into the Collection Tube, add **700 μ L WB2 Buffer**.
9. Centrifuge at 13,000 x g for 1 minute and discard the flow-through.
10. To dry High-Q™ Spin Column, place it into the Collection Tube and centrifuge again at 13,000 x g for 1 minute.
11. Place the High-Q™ Spin Column into a clean 1.5 mL Tube.
12. Add **50-100 μ L prewarmed Elution Buffer or Water** (Molecular Biology Grade) to elute purified DNA.
Prewarm Elution Buffer or Water at 70°C.
13. Incubate at room temperature, 2 minutes.
14. Centrifuge at 13,000 x g for 1 minute.
15. Check DNA quality on agarose electrophoresis gel and quantity by spectrophotometry.
16. Store at -20°C.



✓ Ethanol has been added.