

# High-Q™ -Spin-Column Vaginal Swab Genomic DNA Purification Kit

## Ordering info

TBK0175, 50 reactions

TBK0176, 200 reactions

## Description

The High-Q™ Spin-Column Vaginal Swab Genomic DNA Purification Kit provides an efficient method for isolating genomic DNA from vaginal epithelial cells or vaginal microbiota collected using minimally invasive vaginal swabs. This silica membrane-based purification kit yields high-quality, high-purity total DNA suitable for any downstream molecular application.

## Features

- Safe, no phenol extraction.
- High yield and purity, 3-6 µg, A260/A280 ~1.8.
- Fast and easy protocol.

## Applications

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

## Quality Control

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

## Material required (not supplied)

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

## Kit Components

Components	TBK0175	TBK0176
Spin Columns	50	200
Collection Tubes	100	400
BV Buffer	15 mL	45 mL
PBS 1x pH7.4	80 mL	250 mL
Proteinase K	30 mg <sup>a</sup>	3 x 30 mg
WB1 Buffer	20 mL <sup>b</sup>	70 mL <sup>c</sup>
WB2 Buffer	8 mL <sup>d</sup>	24 mL <sup>e</sup>
Elution Buffer	15 mL	25 mL

**Order Info Kit Components:** Spin Columns (TBM0010) | Collection Tubes (TBM0020) | BV Buffer (TBB0513) | PBS (TBB0360) | Proteinase K (TBZ0305) | WB1 Buffer (TBB0511) | WB2 Buffer (TBB0512) | Elution Buffer (TBB0510).

## Before its use:

<sup>a</sup> 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.

<sup>b</sup> Add 12 mL absolute ethanol and mix well.

<sup>c</sup> Add 42 mL absolute ethanol and mix well.

<sup>d</sup> Add 32 mL absolute ethanol and mix well.

<sup>e</sup> Add 96 mL absolute ethanol and mix well.

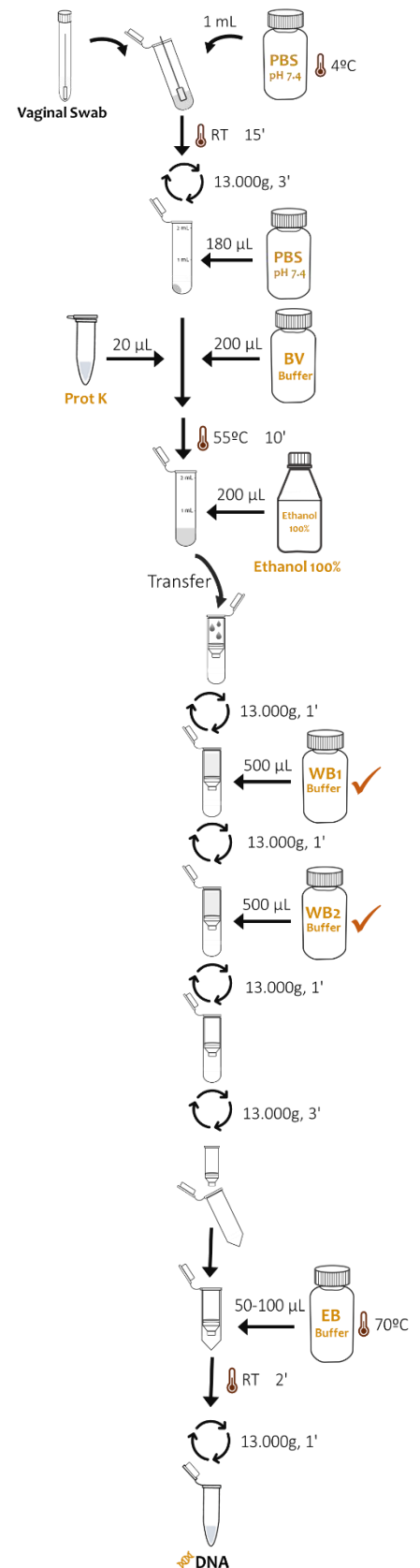
## Storage

Store the kit at 25°C.

Store Proteinase K at -20°C.

## PROTOCOL

- Place the vaginal swab (not supplied) with the sample in a 2 mL tube containing 1 mL PBS 1x pH 7.4.
- Incubate at room temperature for 15 minutes.
- Press the swab against the walls of the tube. Discard the swab.
- Centrifuge at 13,000 × g for 3 minutes. Carefully remove the supernatant.
- Resuspend the cell pellet in 180 μL PBS 1x pH 7.4 and vortex for 10–15 seconds.
- Optional, if RNA-free preparation is required: Add 4 μL RNase (100 mg/mL).*
- Add 20 μL of Proteinase K and 200 μL of BV Buffer. Mix by pipetting until a homogeneous solution is obtained.
- Incubate at 55 °C for 10 minutes.
- Add 200 μL of absolute ethanol and vortex vigorously for 20 seconds. Transfer the mixture to the Spin Column placed in the Collection Tube.
- Centrifuge at 13,000 × g for 1 minute and carefully discard the flow-through.
- Place the Spin Column in the Collection Tube and add 500 μL of WB1 Buffer.
- Centrifuge at 13,000 × g for 1 minute and discard the flow-through.
- Repeat the wash using 500 μL of WB2 Buffer.
- Centrifuge again at 13,000 × g for 1 minute and discard the flow-through.
- To dry the Spin Column membrane, place the Spin Column in the Collection Tube and centrifuge again at 13,000 × g for 3 minutes.
- Place the Spin Column in a clean 1.5 mL tube.
- Add 50–100 μL of pre-warmed Elution Buffer or molecular biology-grade water (pre-warmed to 70 °C) to elute the isolated DNA.
- Centrifuge at 13,000 × g for 1 minute.
- Check DNA quality by agarose gel electrophoresis and determine DNA concentration by spectrophotometry.
- Store at –20 °C.



✓ Ethanol has been added.