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Swab Bacteria DNA Extraction Solution Instructions

Composition

Swab Bacteria DNA Extraction Solution Cat. No.	100 Preps 4104100
Swab Bacteria DNA Extraction Solution Instructions	5 ml 1

Storage

The product can be stored at room temperature (0~30℃), which can keep the performance of the product for 2 years without obvious change, and if the product is stored at 2~8℃, the validity period can be extended to more than 2 years.

Technical support

R&D Department of Hangzhou Simgen Biotechnology Co., Ltd.: E-mail: technical@simgen.cn, Tel: 400-0099-857.

Introduction

This product is suitable for bacteria DNA extraction from 50 μl swab elution. The sample was lysed in the swab bacteria DNA extraction solution, and the protein was precipitated by boiling, and the inhibitor was adsorbed by the resin in the swab bacteria DNA extraction solution. Bacteria DNA dissolved in the supernatant can be obtained by high-speed centrifugation, and up to 5×10^2 copies/ml bacterial sample can be detected.

Equipment and reagents to be supplied by Users

1. Induction cooker or water bath
2. 1.5 ml centrifuge tubes (Axygen 1.5 ml centrifuge tubes are recommended, otherwise the lid may burst open when heated in the water bath)
3. Pipette and tips (to avoid contamination between samples, use DNase-free & RNase-free pipette tips with filters)
4. Disposable gloves and protective equipment and tissues
5. Microcentrifuge (s) (with rotors for 1.5 ml and 2 ml tubes)
6. Vortexer

Preparation before use

1. Bring the water in the induction cooker to a boil or set the water bath temperature to 100℃.
2. Depending on the source of the sample, the bacteria in the swab are eluted into saline or PBS solution.

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Protocol

1. **Transfer 1 ml swab elution containing precipitate (including genital tract swab elution or secretion lotion) into a 1.5 ml centrifuge tube, centrifuge at 12,000 rpm for 1 min, discard 950 µl supernatant, and retain about 50 µl pellet and supernatant.**

* If there is any precipitate in the swab elution, transfer to a 1.5 ml centrifuge tube, otherwise the sensitivity of subsequent tests will be affected.
* The swab elution or secretion lotion can be replaced with normal saline or PBS solution.

2. **Add 50 µl swab bacteria DNA extraction solution. Close the lid and vortex to mix well.**

3. **Incubate at 100℃ for 10 min。**

4. **Centrifuge at 13000 rpm for 10 min。**

5. **Transfer the supernatant for PCR amplification.**

* If the sample lysate is not used on the same day, store the supernatant at -20℃.
* The volume of the supernatant used for template amplification should not exceed 1/10 of the final reaction volume (e.g., in a 50 µl PCR reaction, the amount of supernatant should not exceed 5 µl).
* If you need a product with higher detection sensitivity, or if you want to increase the proportion of template in the final reaction volume, use the Simgen Swab elution Bacteria DNA Kit (Cat. No. 4310050, which can increase the detection sensitivity by about 10-50 times).