

EchoLUTION Viral RNA/DNA Swab 96 Kits

Short protocol for viral swabs using **BioEcho LyseNtact** lysis buffer



This is not a Silica-based kit! Please, read the instructions carefully before starting!



Prepare before starting

- Set plate centrifuge to **1,000 x g**

IMPORTANT NOTE: choose **x g (RCF)**, **NOT RPM** unless stated otherwise



Preparation of the Purification Plate

- Detach** lower & upper foils from **Purification Plate**
- Place **Purification Plate** on top of **Conditioning Plate**
- Centrifuge **1 min** at **1,000 x g**, discard flow through
- Place **Purification Plate** on top of **Elution Plate**

NOTE: Centrifuge rotor needs to be able to hold plate sandwiches of 5.5 cm of height. Conditioning Plates can be re-used.



Recovery of viral particles and Lysis

- Add 50 µl of LyseNtact** lysis buffer to **each** well of a conventional 96-well microtiter plate
- Optional:** Add **1-10 µl** of your internal control (IC) to the each well of the 96-well microtiter plate containing the LyseNtact buffer
- Add 50 µl of sample** (swab-resuspension solution containing the viral particles) per well of the 96-well plate containing LyseNtact and IC

NOTE: Viral particles can be dissolved from the swabs by resuspending in your preferred solution (e. g., saline, PBS, COPAN UTM, COPAN eSwab etc.).

In case of dry swabs, it is recommended to not use more solution volume than needed to dissolve the viral particles from the swab.



Purification of viral RNA and DNA

- Transfer 90 µl** sample mixture from the 96-well plate **slowly** and **vertically** onto the middle of the **Purification Plate** wells using a 8-channel pipette or a robot
- Centrifuge **1 min** at **1,000 x g** on top of an **Elution Plate**

Viral RNA/DNA is in the flow-through and ready to use.



NOTE:

- PCR inhibition observed with your PCR system can be eliminated by loading a reduced sample mixture volume to the Purification Plate, e. g., 75 µl or 50 µl instead of 90 µl
- Internal Controls (IC) that are added before the purification step should be ≥ 500 nt in length



Product use limitation

This kit is for research use only. It is not registered or authorized to be used for diagnosis, prevention or treatment of a disease.