PCR DIRECT® Swab Extraction Reagent

UFL 141	PCR Direct Swab Extraction Reagent

Instructions for Use

1. Product Description

PCR DIRECT Swab Extraction Reagent is intended for the inactivation and extraction of viral and host nucleic acids (DNA & RNA) from swabs. Extracted nucleic acids are suitable for either direct PCR/RT-qPCR.

Arcis PCR DIRECT reagents use a proprietary One-Step™ chemistry for rapid lysis, protection of nucleic acids and sequestration of potential inhibitors of PCR. These reagents allow ultra-rapid processing of swabs, enabling users to go from prepared sample to downstream analysis in 1 pipette step, whilst maintaining high sensitivity and reproducibility in analytical results.

2. Materials Provided

Material Provided	Quantity	Number of Preps	Volume
PCR DIRECT ER1	1 Bottle	40*	13ml

×1

* 40 reactions based on 300µL protocol volumes.

3. Storage Conditions

Store at ambient temperature.

Do Not Freeze. Bottles, vials and tubes should be capped when not in use.

4. Samples

PCR DIRECT ER1 is optimized for preparation of PCR ready DNA or RT-qPCR ready RNA from swabs. Swabs samples should be collected into dry tubes or receptacles. Collect swab sample according to manufacturer's instructions, e.g, do not to consume food or drink, for at least 30 minutes prior to sample collection. Swabs should not be mixed with other transport media or lysis reagents prior to the addition of the PCR DIRECT ER1 as this may affect results

5. Applications

Nucleic acids prepared with PCR DIRECT ER1 have been successfully used as samples in molecular biology techniques including PCR, and RT-qPCR. For maximum sensitivity in downstream PCR, the reaction may be prepared with up to 50% sample by volume (e.g, up to 12.5µl sample in a 25µl reaction).

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Instructions for Use Continued

6. Standard 300µL Swab Protocol

1. Collect dry swab according to laboratory procedure, in dry tubes without transport media.
2. Add 300µl of PCR DIRECT ER1 to a low binding micro tube (1.5-2.0ml)
3. Add the swab to the micro tube squeeze and turn the swab against the micro tube wall to extract as much as possible of the mucus, at least ten (10) times
4. Pipette mix at least ten (10) times
5. Heat sample for five (5) minutes at 70°C (Optional)
6. Sample is ready for downstream molecular analysis or processing

Note: Inadequate mixing, Squeeze and turns in steps 3and 4 will result in lower sensitivity. Mixing by pipetting is preferred

Nucleic acid yield and processing efficiency may vary depending on the virus extracted. Samples prepared with the PCR DIRECT ER1 should be used in the intended downstream processes within 4 hours of preparation or frozen if intended for use within 24 hours.

Freeze-thaw cycles after adding PCR DIRECT ER1 should be limited to 2 or fewer. For longer term storage of RNA, we recommend the addition of an RNase inhibitor in the amount recommended by the manufacturer to ensure long term stability.

This protocol may be adjusted for larger sample volumes by scaling the volume of PCR DIRECT ER1 in proportion to the increase in sample volume.

RUO This product is intended for laboratory research use only. Not for diagnostic use.

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