PCR DIRECT® Saliva Extraction Reagent

UFL125	PCR DIRECT Saliva Extraction Reagent

Instructions for Use

1. Product Description

PCR DIRECT Saliva Extraction Reagent is intended for the inactivation and extraction of viral and host nucleic acids (DNA & RNA) from saliva. 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 saliva samples, 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	500*	122ml

×1

* 500 reactions based on standard saliva 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 saliva. Saliva samples should be collected into dry tubes or receptacles. For saliva samples, donors should be instructed not to consume food or drink, or use gum, toothpaste for at least 30 minutes prior to sample collection. Saliva 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 Saliva Protocol

1. Collect saliva samples according to laboratory procedure, in dry tubes without transport media
   For best results, we recommend freezing samples while in storage prior to processing
2. Add 100µl of sample to a 1.5ml low binding micro tube
3. Add 231µl of PCR DIRECT ER1 to the sample with the same pipette, mix ten (10) times
4. Heat sample for five (5) minutes at 70°C **(Optional)**
5. Sample is ready for downstream molecular analysis or processing

Note: Inadequate mixing in step 2 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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