Instructions for Isohelix Salivalyse PCR Prep Kit: SEK-50

Product Details:

The Isohelix Salivalyse PCR prep kit is a rapid sample preparation solution designed to quickly and efficiently prepare PCR and qPCR ready DNA from saliva samples stabilised using GeneFix collectors. Salivalyse provides a faster alternative to conventional purification methods, reducing turnaround time allowing for faster analysis of PCR runs.

Kit Contents:

Catalogue Number:	**SEK-50**	**Storage Temperature**
Number of GFX samples processed	50 x 200µl aliquots	
Contents:		
Proteinase K	11mg*1	4°C after reconstitution
Salivalyse Solution	20ml	4°C
Protocol	-	

*1 Reconstitute vial with 550µl sterile ddH_2O before first use, store at 4°C after reconstitution.

Storage:

Please note that on arrival the kit components should be stored according to the table above.
The kits are stable up to the expiry date if stored as instructed. See box label for expiry date.

Equipment & Reagents:

To be supplied by user:

- DNAse/RNAse-Free Water.
- DNAse/RNAse-Free Microcentrifuge tubes (1.5m).
- Water/Dry Baths, preheated to 60°C and 95°C.
- Vortexer.
- Microcentrifuge (RCF ≥ 12,000 x g).

Before Starting:

- Reconstitute the Proteinase K by adding the appropriate amount of sterile ddH_2O as shown above.
- Preheat two water or dry baths to 60°C and 95°C.

Safety and Use of the Salivalyse Prep Kit:

The Buccalyse DNA Release kits are intended for use by qualified professionals trained in potential laboratory hazards and good laboratory practice. This kit has been designed for research use only.

Processing Steps for manual preparation of 200µl GeneFix samples:

1. Gently vortex the saliva collection tube to mix. Remove a 200µl aliquot of saliva sample into a clean, DNase/RNase-free 1.5ml tube. The remainder of the GFX sample can be stored at room temperature for later use. DNA samples stabilised in GFX are stable for up to 5 years at room temperature.

2. Add 1/25th volume (8µl) of Proteinase K solution and vortex gently to mix. Incubate aliquot at 60°C for 15 minutes, followed by 95°C for 5 minutes immediately afterward, then allow to cool to room temperature.

3. Add two volumes (400µl) of Salivalyse Reagent to sample and vortex gently to mix. The solution may become cloudy at this point.

4. Place samples immediately into the centrifuge and spin at 12,000 x g for 5 minutes.

5. Carefully remove the supernatant containing the sample into a clean, DNAse/RNase-free 1.5ml tube, taking care not to disturb the pellet. Discard the pellet containing impurities.

6. Samples are now ready for PCR amplification. For best results use samples immediately following preparation.
   If required, DNA samples can be stored at 4°C for up to 7 days prior to PCR.
   For downstream PCR/qPCR input a volume of sample equal to 10% of the final PCR reaction volume (e.g. for a 20µl reaction volume, use 2µl of sample for the template).