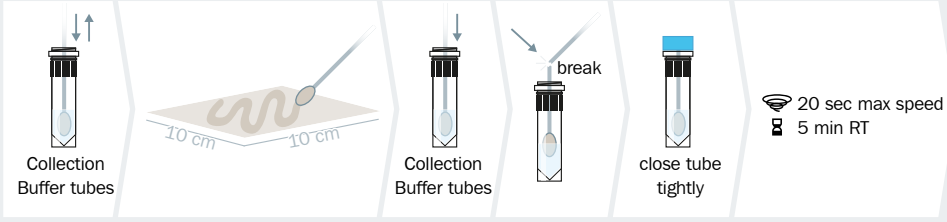
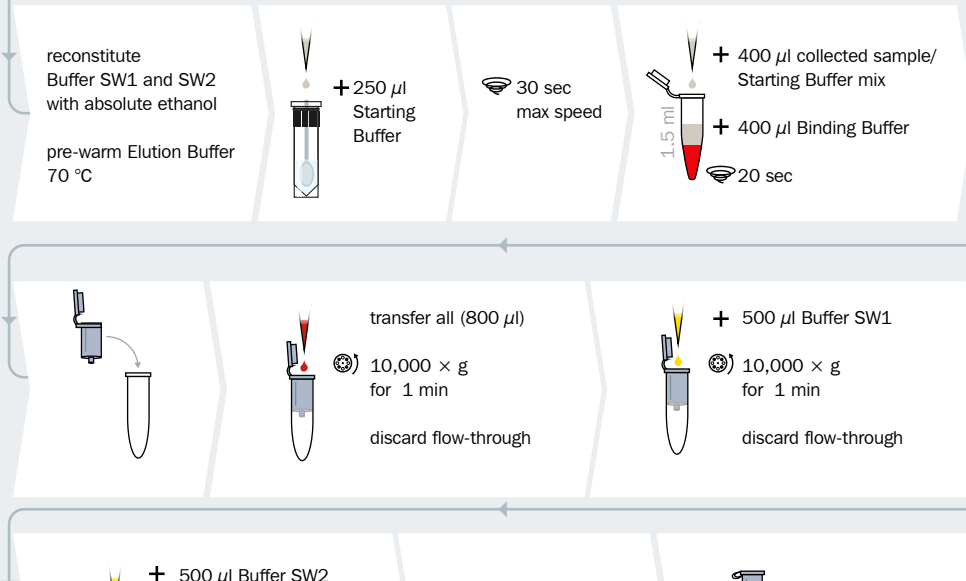
PROCEDURE - OVERVIEW

1. Sample Collection



2. DNA Extraction



+ add vortex incubate centrifuge

3. Preparation of PCR Mastermix

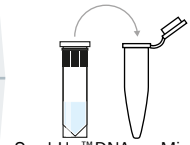
SwabUp™ DNAmp Mix
5 sec max speed

260 µl
Rehydration Buffer
SwabUp™ DNAmp Mix

5 min RT
briefly
5 sec

4a. Preparation of PCR Reactions (Conventional PCR)

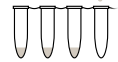
transfer required amount



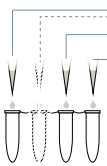
SwabUp™ DNAmp Mix

+ forward primer
+ reverse primer
+ dH_2O to 15 µl

loading reaction tubes
aliquot 15 µl



+ 5 µl DNA Extract
+ 5 µl Positive Control
+ 5 µl PCR grade water (NC)



briefly
5 sec

5a. PCR Amplification

Example

1 cycle	94 °C for 2 min
25 cycles	94 °C for 30 sec
	55-68 °C for 15-30 sec*
	72 °C for 60 sec / 1 kb target
hold	4 - 10 °C

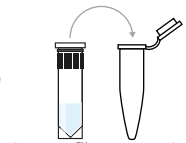
*Usually the optimal annealing temperature is 5 °C below the melting temperature of the primers.

Gel electrophoresis - example

DNA Ladder
Positive Control
Negative Control
Positive sample 1
Positive sample 2
Negative sample

4b. Preparation of PCR Reactions (qPCR)

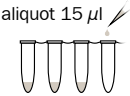
transfer required amount



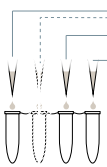
SwabUp™ DNAmp Mix

+ forward primer
+ reverse primer
+ Probe
+ dH_2O to 15 µl

loading reaction tubes
aliquot 15 µl



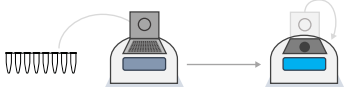
+ 5 µl DNA Extract
+ 5 µl Positive Control
+ 5 µl PCR grade water (NTC)



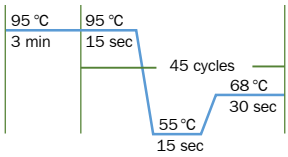
briefly
5 sec

5b. qPCR Amplification

Example



Start PCR program



+ add incubate centrifuge vortex NC = Negative Control NTC = Non-Template Control