



PROTOCOL: Extraction-free Processing of Blood Dried onto Filter Paper

V. 20221207

Sample:

- Blood dried onto Whatman Filter paper
- Other samples may be suitable (must be verified by user)

Materials:

- Entopsis:
 - PCRopsis™ Reagent RVD with RVD Enhancer (see product IFU)
 - PCRopsis™ Elution Buffer (see product IFU)
- Test sample
- Hole puncher
- Thin-walled PCR tubes
- Heat block or thermocycler

Methods:

1. Create hole punches of your test sample using a standard, sterile hole puncher
2. Place 1 hole punched filter paper sample into a 1.5 mL tube
3. Add ~100 μ L of PCRopsis™ Elution Buffer to the tube
4. Vortex thoroughly for 1~3 minutes to elute material off the filter paper
5. Mix 20 μ L PCRopsis™ Reagent RVD with RVD Enhancer with 20 μ L of eluted sample in a thin-walled tube (0.2 ~ 0.6 mL) and cap tubes
6. Heat mixture of reagent + blood sample for 10~15 minutes at 95°C and let cool at room temperature for ~10 seconds before continuing
7. Mix thoroughly
8. Add 5 μ L of heated sample (top, clear phase of heated sample) to 15 μ L of qPCR mixture.