# TB-LAMP Workflow

## 1. Sample transfer and lysis

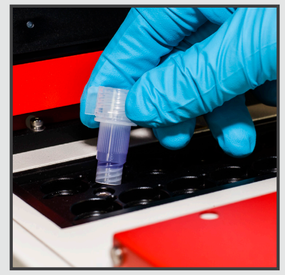
› Remove the cap to open the heating tube of the Loopamp™ PURE DNA Extraction Kit.

› Use the Pipette-60 to collect slowly the most purulent portion of each sputum sample. Rub the end of the tip on the bottom of the cup to avoid and cut strings.

› Transfer 60 µl of the sputum.

› Transfer the sample slowly into the heating tube. Slowly rinse the tip once to remove the sputum.

› Mix the contents of the tube by shaking.



› Incubate the tube in the HumaLoop T heating unit for 5 min at 90°C.

## 2. Loopamp™ PURE DNA extraction

› Remove the cap of the adsorbent tube but do not discard it.

› Screw the heating tube onto the adsorbent tube.

› Mix the lysed sample with the powder in the adsorbent tube by shaking thoroughly.

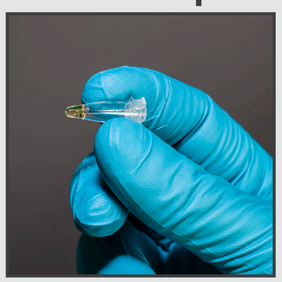
› Shake the tube until a milky solution is obtained.

› Screw the injection cap onto the other side of the adsorbent tube.

› Extract 30 µl of the DNA directly into the reaction tube by squeezing the adsorbent tube.

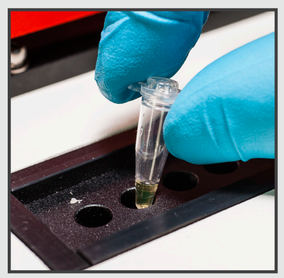
## 3. Loop-mediated isothermal amplification

› Incubate the tube upside down for 2 min (use timer) at room temperature to reconstitute the reagents in the cap.



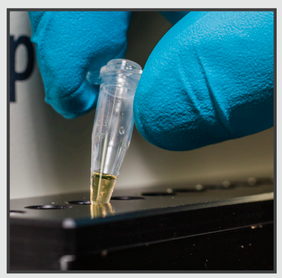
› Mix the contents of the tube by shaking five times.

› Tap the reaction tube point down on a hard surface several times until the reaction mixture is collected at the bottom.

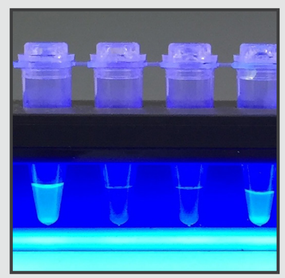


› Incubate the reaction tube at 67°C for 40 min in the reaction unit. The reaction is automatically inactivated by a further incubation step at 80°C for 5 min.

## 4. Result reading



› Insert the tube into the detection unit and turn on the UV light.



› Positive results fluoresce green.

*A visualized workflow is shown. Please always refer to the latest versions of the Instructions for Use.*

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