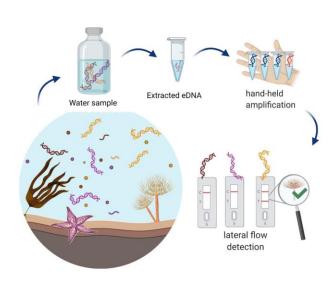
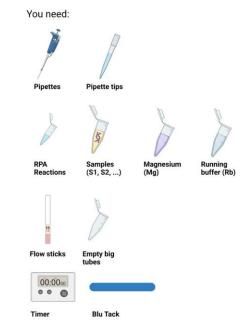
Simplified Recombinase Polymorphism Amplification-Lateral Flow (RPA-LF) protocol

RPA procedure



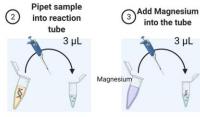




Big tube: samples

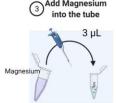
Grab Samples S1, S2, S3, S4, .. and same number of RPA reactions

Label RPA reaction tubes -> R1, R2, R3, R4, ...



Pipette 3 µL of Sample S1 (big tube) into RPA reaction R1 (small tube), S2 into R2, and so on

CHANGE TIP AFTER EACH SAMPLE



Add 3 µL Magnesium to each tube. Close the lid, and flick reaction tube with finger

CHANGE TIP AFTER EACH SAMPLE



Incubate

Hold RPA reaction tubes in hand or warm spot on body for 30 minutes e.g. armpit

flick tube to mix after 5



After 30 minutes: Add 80 µL running buffer into each RPA reaction tube from step 4 (R1, R2, ...)

Close tubes and flick with finger to mix

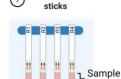
set aside

6 Prepare running buffer tubes



Grab 4 empty big tubes

Pipette 80 µL running buffer into each big tube



area

Prepare flow

Grab 4 flow sticks and label R1, R2, R3, R4

secure the flow sticks on a piece of blue tac sample area facing up (do not have sample area touch the blue tac)

Apply reaction to flowstick



Pipette 10 µL reaction from step 5 on flow stick -> pipette 10 µL of reaction R1 onto sample area of flow stick R1, Reaction R2 onto stick R2...

Run reaction on flow stick



into tube with 80 μL running buffer (tubes from step 6)

1 flow stick per tube

CHANGE TIP AFTER EACH SAMPLE



wait patiently 10 min before reading results





