Gram Bacteria DNA (61G) Quick Guide

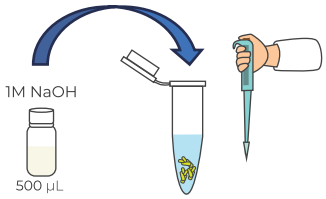
Starting Materials: G+/G- bacterial culture, BAL, Sputum

Elution Volume: 90 ~ 130 µL

TANBEAD

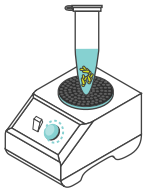
Sputum Sample

STEP 1 Pretreatment



1M NaOH : sputum (v:v) = 1:1 mix with sputum samples for 15 min, and place 500 µL of the mixture into a 1.5 mL tube.

STEP 2 Vortex



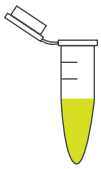
Vortex for 30 sec.

STEP 3 Centrifugation

Centrifuge at 13000 x g for 5 min

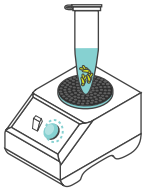
BAL

STEP 1 Pretreatment



Place 500 µL of the BAL into a 1.5 mL tube

STEP 2 Vortex



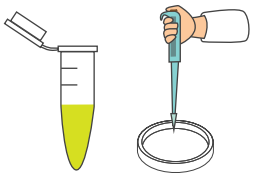
Vortex for thoroughly mixing

STEP 3 Centrifugation

Centrifuge at 13000 x g for 5 min

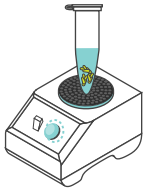
Solid Culture

STEP 1 Pretreatment



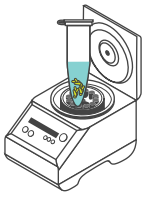
Place 500 µL of PBS into 1.5 mL vial and take seeding loop to take two colonies.

STEP 2 Vortex



Resuspend with vortex for 30 sec.

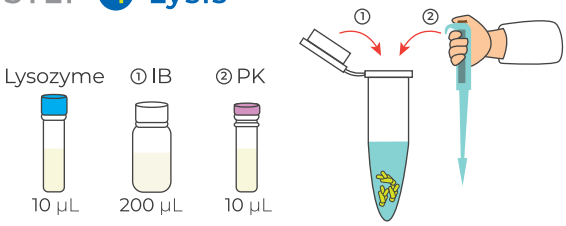
STEP 3 Centrifugation



Centrifuge the mixture at 13,000 x g for 5 min.

Discard the supernatant and suspense the pellet with 500ul PBS and repeat step 2 to 3 three times

STEP 4 Lysis

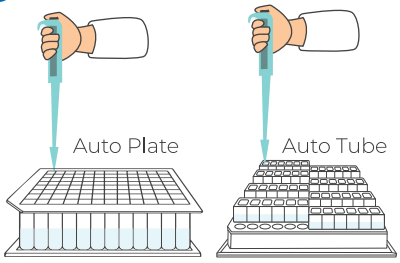


Discard supernatant and add 200 µL Incubation Buffer 10 µL Lysozyme, mix well, then add 10 µL PK

STEP 5 Incubation

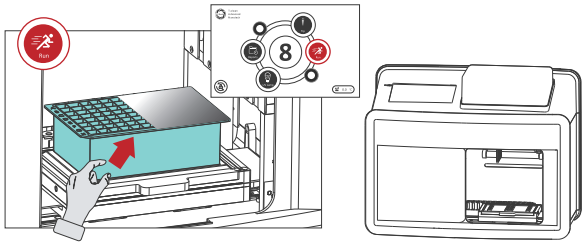
Incubate at 56˚C for 20 ~ 30 min

STEP 6 Extraction



Transfer the lysate into well #1/#7

STEP 7 Prepare to Run



Place the extraction kit with cropped corner facing outwards. Tap ***Run*** icon. See back for Maelstrom Switch 8 Operation Quick Guide and start with ***Step 8***.

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Maelstrom™ Switch 8 Operation Quick Guide

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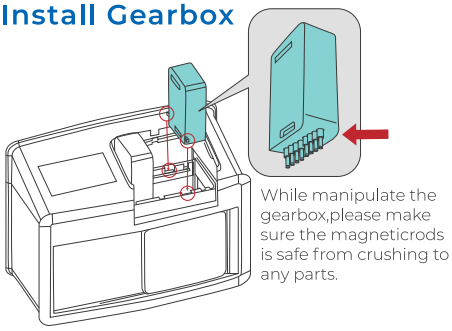
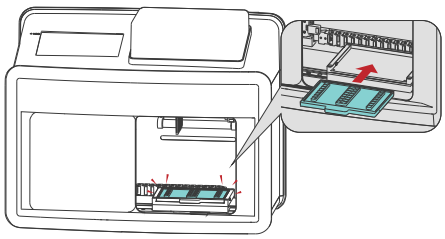
※Here is the illustration for CH 8 Gearbox with Auto Plate.

STEP 1
Install Gearbox



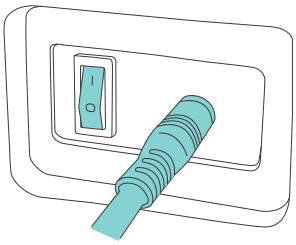
Power off. Open the top lid. Install one gearbox according to the sample type. Close the top lid.

STEP 2
Install Heating Plate



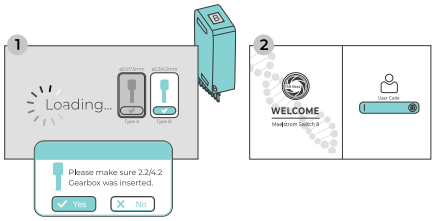
Open the door. Install the corresponding heating plate.

STEP 3
Power *On*



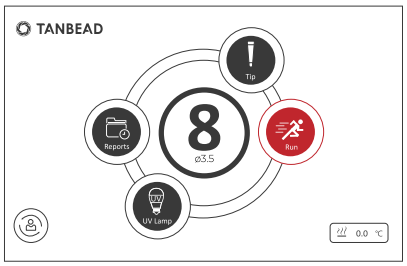
Power On the instrument.

STEP 4
Choose Rod Type and Login System



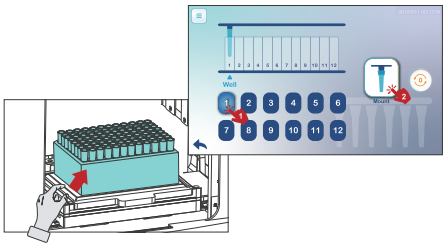
Select ø2.2/4.2mm (TANBEAD reagent). Confirm "YES", then log in with user code "333" for operation.

STEP 5
Prepare to Run



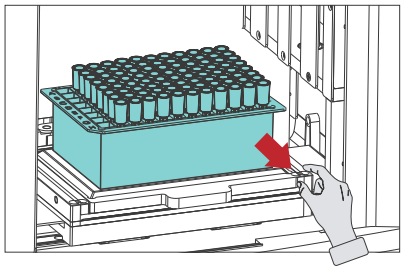
Tap first, double-tap the Program name from the OptiPure Blood DNA IFU, then follow the on-screen instructions.

STEP 6
Place the Spin Tips Assembled Box and Mounting Tips



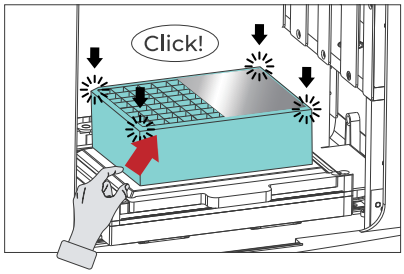
Place the spin tips assembled box onto the heating plate and insert the SW8, then tap the "mount" icon and confirm "YES" to start mounting.

STEP 7
Tip Box Removal



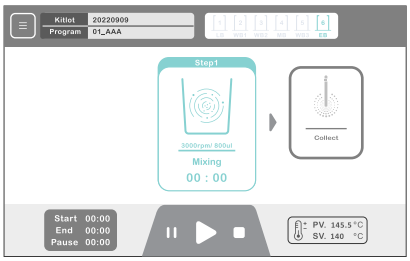
Remove the tip box after mount tips.

STEP 8
Start to Run



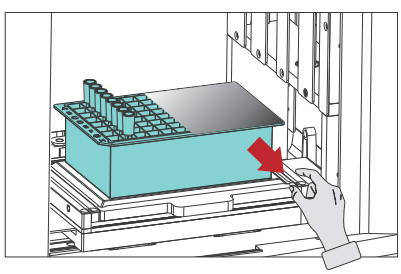
Install the reagent Plate (cut corner at bottom-left), press the four corners until it clicks, then press "YES" on the confirmation window to start the run.

STEP 9
Running Status



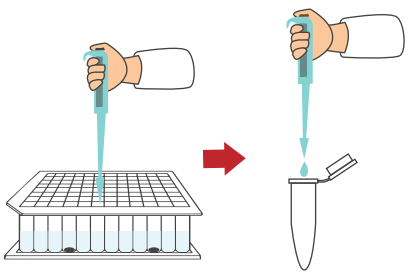
Check the display status. Tap on " ⏸ " to pause or " ■ " to stop and abort the run. When finished, " ✓ " icon will appear. Tap to enter the report and review the results. After reviewing the report, return to the previous page to perform tip ejection.

STEP 10
Extraction Complete

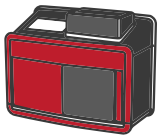


Remove extraction kit.

STEP 11
Transfer Nucleic Acids



Transfer the purified nucleic acid from column #6 / #12 to clean tube.



Maelstrom Switch 8

For more detailed information, please refer to the User manual within the following link.

Video How to Use

Video FAQ

User Manual

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