For research use only

GeneAll® Brief Protocol

Cat. No. 115-150

Exgene™ Stool DNA mini

1. **Add up to 200 mg of stool sample to a 2 ml tube (provided).**
2. **Add 1 ml of buffer PBS to the tube and vortex for 1 minute or until the stool sample is thoroughly homogenized.**
3. **Stand the tube for 30 seconds at room temperature.**
4. **Transfer the supernatant to a new 2 ml tube (provided).**
   It may requisite to use a wide-bore tip or cut the end off the pipet tip to apply the viscous homogenate to the tube.
5. **Centrifuge the tube at full speed for 2 minutes and discard the supernatant.**
6. **Add 1.3 ml of buffer FL and resuspend the pellet by pipetting up and down.**
   To enhance the resuspension, vortex the tube after pipetting.
   If buffer FL precipitation, pre-heat in a 56℃ water bath to dissolve completely.
7. **Stand the tube at room temperature for 5 minutes and then centrifuge at ≥ 10,000 x g for 5 minutes at room temperature.**
   If possible, move the supernatant to a new 1.5 ml tube before step 8.
8. **Transfer the supernatant to a EzPass™ filter (white column).**
9. **Centrifuge at ≥ 10,000 x g for 1 minute at room temperature.**
10. **Repeat step 8 ~ 9 using the remainder of the sample.**
    Transfer the EzPass™ filter to a new 1.5 ml tube (provided).
11. **Add 100 ul of buffer EB to the EzPass™ filter and incubate for 1 minute at room temperature.**
12. **Centrifuge at ≥ 10,000 x g for 1 minute at room temperature.**
13. **Add 500 ul of buffer PB to the passed-through and mix well by pipetting.**
14. **Transfer the mixture to a mini spin column (G type, green).**
15. **Centrifuge at ≥ 10,000 x g for 1 minute at room temperature.**
    Discard the pass-through and reinsert the mini spin column back into the same tube.
16. **Add 500 ul of buffer NW to the mini spin column.**
17. **Centrifuge at ≥ 10,000 x g for 1 minute at room temperature.**
    Discard the pass-through and reinsert the mini spin column back into the same tube.
18. **Centrifuge at maximum speed for 1 minute at room temperature to remove residual wash buffer.**
    Transfer the mini spin column to a new 1.5 ml tube (provided).
    Residual ethanol may interfere with downstream reactions. Care must be taken at this step for eliminating the carryover of buffer NW.
19. **Add 50 ul of buffer EB to the center of the membrane in the mini spin column.**
    Incubate for 1 minute at room temperature. Centrifuge at ≥ 10,000 x g for 1 minute at room temperature.
    Elution volume can be decreased to 30 ul for high concentration of DNA, but this will slightly decrease in overall DNA yield.
    If maximum recovery of DNA is prefered or the starting materials contain large amount of DNA, elution can be done in 200 ul of buffer EB.

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