

# VORGEN<sup>®</sup> FavorPrep<sup>™</sup> Milk Bacterial DNA Extraction Sample Kit

# Kit Contents:

Lysis Buffer MB1	2 ml
Lysis Buffer MB2	2 ml
W1 Buffer (concentrate)*	1.3 ml
Wash Buffer (concentrate)**	1.0 ml
Elution Buffer	1 ml
Lysozyme 🗖	3 mg
Proteinase K 💻	1 mg
Binding Column W4	4 pcs
Collection Tube	4 pcs

\*Add 0.5 ml ethanol (96-100%) to W1 Buffer

- \*\*Add 4 ml ethanol (96-100%) to Wash Buffer
- Store lyophilized Lysozyme at -20 °C upon receipt of kit
- Store lyophilized proteinase k at 4 °C upon receipt of kit

### **Important Notes:**

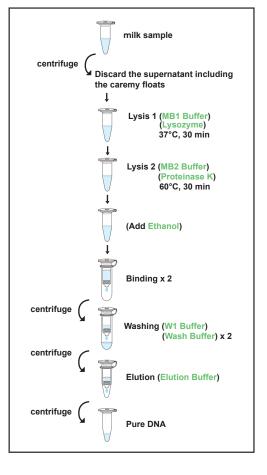
- 1. Buffers provided in this system contain irritants. Wear gloves and lab coat when handling these buffers.
- 2. Add 150 µl sterile ddH2O to lysozyme tube to make a **20 mg/ml** stock solution. Vortex and make sure that lysozyme has been completely dissolved. Aliquot the lysozyme stock into small fractions and store the unused portions at -20 °C.
- Add 100 µl sterile ddH2O to Proteinase K tube to make a 20 mg/ml stock solution. Vortex and make sure that Proteinase K has been completely dissolved. Store the stock solution at 4 °C.
- 4. Add required volume ethanol (96-100 %) to Wash Buffer W1 and W2 when first use.
- 5. Prepare two dry baths or two water baths before the operation: one to 37 °C for step 2 and the other to 60 °C for step 3.
- 6. Perheat the Elution Buffer or ddH2O for step 11 (Elution step).
- 7. All centrifuge steps are done at full speed (14,000 rpm or 18,000 x g) in a microcentrifuge.

## **General Protocol:**

#### Please Read Important Notes Before Starting The Following steps.

Hint: Perheat the Elution Buffer or ddH2O for step 11 (Elution step).

- 1. Transfer **up to 1 ml of milk sample** to a microcentrifuge tube (not provided) and centrifuge at full speed for 3 minutes. Discard the supernatant including the creamy floats on the top layer after centrifugation and use a paper towel or a cotton swap to remove any white remains on the tube wall.
- 2. Add **425 µl Lysis Buffer MB1 and 30 µl Lysozyme solution (20mg/ml)** and mix well by vortexing. Incubate at 37°C for 30 minutes.
- 3. Add 425 µl Lysis Buffer MB2 and 20 µl Proteinase K solution (20mg/ml) to the sample mixture and mix thoroughly by vortexing. Incubate at 60°C for 30 ~60 minutes.
- 4. Add 450 µl ethanol (96~100%) to the sample mixture. Mix thoroughly by pulse-vortexing for 10 seconds.
- 5. Place a Binding Column W4 to a Collection Tube. Transfer the sample mixture **up to 750 µl** to Binding Column W4 and centrifuge at full speed for 1 min. Discard the flow-through and place the Binding Column W4 back to the Collection Tube.
- 6. Repeat Step 5 for the rest of the sample mixture. Place the Binding Column W4 to a new Collection Tube.
- 7. Add 400 µl W1 Buffer to Binding Column W4 and centrifuge at full speed for 30 seconds. Discard the flow-through and place the Bindibg Column W4 back to the Collection Tube.
  --Make sure that ethanol has been added into Wash Buffer W1 when first use.
- Add 650 µl Wash Buffer to Binding Column W4 and centrifuge at full speed for 30 seconds. Discard the flow-through and place the Binding Column W4 back to the Collection Tube.
- --Make sure that ethanol has been added into Wash Buffer W2 when first use.
- 9. Repeat Step 8 for one more washing.
- 10. Centrifuge at full speed for an additional 3 min to dry the Binding Column W4 completely.
- 11. Place Binding Column W4 to a Elution Tube. Add 50~100 µl of preheated Elution Buffer or ddH2O (pH 7.5-9.0) to the membrane center of Binding Column W4. Stand the Binding Column W4 for 3 minutes.
- Note! Make sure that the elution solution is dispensed onto the membrane and is absorbed completely.
- 12. Centrifuge at full speed for 1 minute to elute total DNA. Store total DNA at 4°C or -20°C.



(Cat.: FAMBD 000-Mini, 4 preps) (For Research Use Only)