

FavorPrepTM Milk Bacterial DNA Extraction Mini Kit

Cat. No.: FAMB1020 (4 preps) FAMB1023 (50 preps) For Research Use Only

Kit Contents:	FAMB1020 (4 preps)	FAMB1023 (50 preps)
Lysis Buffer MB1	2 ml	25 ml
Lysis Buffer MB2	2 ml	30 ml
W1 Buffer (Concentrate)*	1.3 ml	22 ml
Wash Buffer (Concentrate)**	1 ml	15 ml
Elution Buffer	1 ml	8 ml
Lysozyme Solution	55 µl	650 µl
Proteinase K (Liquid)	100 μΙ	1050 µl × 2
Binding Column W4	4 pcs	50 pcs
Collection Tube	4 pcs	50 pcs
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■ Store Lysozyme Solution at -20°C upon receipt of kit.

Preparation of W1 Buffer and Wash Buffer and store at RT.			
Cat. No.	FAMB1020	FAMB1023	
Ethanol volume for W1 Buffer *	0.5 ml	8 ml	
Ethanol volume for Wash Buffer **	4 ml	60 ml	

Specification:

Format/Principle: Mini spin column (silica matrix)

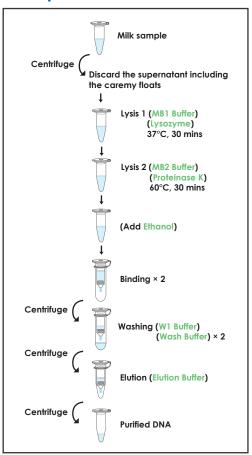
Sample Size: Up to 1 ml milk Operation Time: <75 mins

Binding Capacity: ≤60 µg/column Column Applicability: Centrifugation

Important Notes:

- 1. Buffers provided in this system contain irritants. Wear gloves and lab coat when handling these buffers.
- 2. Add required volume ethanol (96~100%) to W1 Buffer and Wash Buffer at the first use.
- 3. 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.
- 4. Perheat the Elution Buffer or ddH2O for step 11 (Elution step).
- 5. All centrifuge steps are done at full speed (14,000 rpm or 18,000 xg) in a microcentrifuge.

Brief procedure



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 mins. 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 **12 µl Lysozyme solution (40 mg/ml)** and mix well by vortexing. Incubate at 37°C for 30 mins.
- 3. Add **425 µl Lysis Buffer MB2** and **40 µl Proteinase K** to the sample mixture and mix thoroughly by vortexing. Incubate at 60°C for 30~60 mins.
- 4. Add 450 µl ethanol (96~100%) to the sample mixture. Mix thoroughly by pulse-vortexing for 10 secs.
- 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 secs. Discard the flow-through and place the Bindibg Column W4 back to the Collection Tube.
 - -Make sure that ethanol has been added into W1 Buffer at the first use.
- 8. Add 650 µl Wash Buffer to Binding Column W4 and centrifuge at full speed for 30 secs. 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 at the first use.
- 9. Repeat Step 8 for one more washing.
- 10. Centrifuge at full speed for an additional 3 mins 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 mins.
 - -Note! Make sure that the Elution Buffer is dispensed onto the membrane and is absorbed completely.
- 12. Centrifuge at full speed for 1 min to elute total DNA. Store the extracted DNA at 4°C or -20°C.