Full Manual(EN)

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Full Manual(KR)

EcoQprep™ Genomic DNA Kit

K-3701

• 50 rxn

Name	Volume	Quantity	Name	Volume	Quantity
TL Buffer	15 mL	1 ea	Proteinase K powder, lyophilized	25 mg	1 ea
GB Buffer	15 mL	1 ea	RNaseA powder, lyophilized	24 mg	1 ea
WM1 Buffer	30 mL	1 ea	Poly(A), lyophilized	1 mg	1 ea
WB2 Buffer	10 mL	1 ea	Magnetic Nanobead	6 mL	1 ea
WE Buffer	40 mL	1 ea	1.5 mL Tube	50 ea	1 pack
EA Buffer	25 mL	1 ea	One Page Protocol	-	1 ea

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One Page Protocol

Before Start

Components	Before Use	Storage
TL Buffer	If precipitation occurs, incubate on a heating block at 60℃ before use.	Room temperature
WM1 and WB2 Buffer	As indicated on the bottle label, add the correct amount of absolute ethanol (not provided).	Room temperature
Proteinase K	Dissolve in 1,250 µL of nuclease-free water.	Short-term : 4℃ / Long-term : -20℃
RNase A	Dissolve in 600 µL of nuclease-free water.	Short-term : 4℃ / Long-term : -20℃
Poly (A)	Dissolve in 1,000 µL of nuclease-free water.	Short-term : 4℃ / Long-term : -20℃
Lysozyme (Not provided)	Prepare at a concentration of 100 mg/ml for gram-positive bacterial lysis.	-
Lysis Buffer (Not provided)	For gram-positive bacteria, prepare as follows: 20 mM Tris-HCl (pH8.0), 2 mM Sodium-EDTA, 1.2% Triton X-100.	-

Symbol

- Run centrifuge
- Heating
- Incubating(RT ~ 37℃)
- Caution
- Add the following solution

Protocol

NOTE It is recommended to vortex after adding the solution.

Sample	Pre-treatment ①	Lysis ②	Precipitation ③	Binding ④	1st Wash ⑤	2nd Wash ⑥	3rd Wash ⑦	Elution ⑧
Whole blood Buffy coat	Sample : 200 µL	⊕20 µL **Proteinase K** ⊕200 µL **GB** 60℃, 10 min	⊕400 µL EtOH	⊕100 µL **Bead** 1) Attach magnet 2) Invert 3~4X 3) Discard sup 4) Detach magnet	⊕500 µL **WM1** Follow 1) ~ 4) as below. Repeat whole steps again ⊕700 µL **WM1** 1) Attach magnet 2) Invert 3~4X 3) Discard sup 4) Detach magnet	⊕700 µL **WB2** 1) Attach magnet 2) Invert 3~4X 3) Discard sup Do Not Detach magnet	⊕700 µL **WE** Add to the Opposite side of the beads 1) Gently invert 2X 2) Discard sup 3) Detach magnet	⊕100 µL **EA** 60℃, 1 min 1) Attach magnet 2) Transfer the eluent
Cultured cells	Cell pellet : ~ 1 × 10^6 cells 300 xg, 10 min ⊕ 200 µL PBS(1X)	⊕20 µL **Proteinase K** ⊕10 µL **RNase A** RT, 2 min ⊕200 µL **GB** 60℃, 10 min	⊕400 µL EtOH					
Animal tissues	Homogenize sample : ~25 mg ⊕180 µL **TL**	⊕20 µL **Proteinase K** ⊕10 µL **RNase A** RT, 2 min 60℃, until lysed	⊕200 µL **GB** ⊕400 µL EtOH					
Bacteria – Gram (-)	Cell pellet : ~ 1 × 10^9 cells 6000 xg, 10 min ⊕ 180 µL **TL**	⊕20 µL **Proteinase K** ⊕10 µL **RNase A** RT, 2 min 60℃, until lysed	⊕200 µL **GB** ⊕400 µL EtOH					
Bacteria – Gram (+)	Cell pellet : ~ 1 × 10^9 cells 6000 xg, 10 min ⊕ 180 µL Lysis Buffer	⊕20 µL Lysozyme ⊕10 µL **RNase A** 37℃, 30 min ⊕20 µL **Proteinase K** ⊕200 µL **GB** 60℃, until lysed	⊕400 µL EtOH					