GRS Genomic DNA Kit – Tissue

#GK03.0100 (100 preps) | GK03s (trial size, 4 preps)
(FOR RESEARCH ONLY)

SUGGESTED PROTOCOL FOR DNA PURIFICATION FROM STOOL

ANIMAL DNA (including parasites) or BACTERIAL DNA

Required (and not included):
Lysozyme Buffer = 20mg/ml Lysozyme; 20mM Tris-HCl pH 8.0; 2mM EDTA; 1% Triton X-100
(prepare fresh immediately prior to use)

1) Transfer up to 30mg of stool into a 1.5-ml microcentrifuge tube.

2) Add 200µl of Lysozyme Buffer and homogenize by vortexing vigorously and/or grinding using the micropestle.

3) Incubate at room temperature for 20 minutes. During incubation, invert the tube regularly.

4) Proceed with the lysis step of the tissue protocol (increase the temperature to 70ºC or 95ºC for difficult samples such as Gram-positive bacteria).

FUNGAL & YEAST DNA

Required (and not included):
Zymolyase or Lyticase
Sorbitol Buffer = 1.2M sorbitol; 10mM CaCl2; 0.1M Tris-HCl pH 7.5; 35mM β-mercaptoethanol

1) Transfer up to 30mg of stool into a 1.5-ml microcentrifuge tube.

2) Add 600µl of Sorbitol Buffer and 200U of Zymolyase (or Lyticase) and homogenize by vortexing vigorously and/or grinding using the micropestle.

3) Incubate at 30ºC for 30 minutes. During incubation, invert the tube regularly.

4) Harvest spheroplasts by centrifugation at 2,000g for 10minutes. Remove the supernatant and resuspend the pellet in 200µl of Buffer BC2

5) Incubate at room temperature for 5 minutes and proceed with the lysis step of the cultured cell protocol.