

Bacterial Genomic DNA Isolation Kit

For the rapid preparation of genomic
DNA from bacteria



- ✓ Isolate genomic DNA from all types of bacteria (both Gram-positive and Gram-negative)
- ✓ Rapid and convenient spin column protocol
- ✓ 96-well format available for high throughput
- ✓ High yield, high quality DNA for sensitive downstream applications including sequencing, PCR, qPCR and more

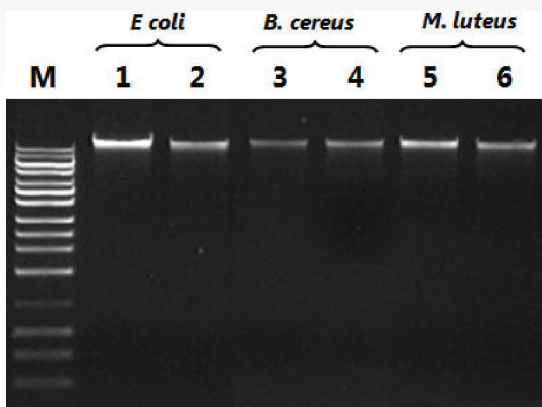


Figure 1. Isolation of Genomic DNA from both Gram Positive and Gram Negative Bacteria. The Bacterial Genomic DNA Isolation Kit was used to isolate genomic DNA from 1 mL overnight culture (1×10^9 cell) of the Gram negative bacteria *E. coli* (Lanes 1 and 2), the lysozyme-resistant Gram positive bacteria *B. cereus* (Lanes 3 and 4) and the Gram positive bacteria *M. luteus* (Lanes 5 and 6). Lane M is Norgen's UltraRanger 1kb DNA Ladder. For analysis 5 μ L of the 200 μ L eluted genomic DNA were loaded on a 1X TAE, 0.9% agarose gel.

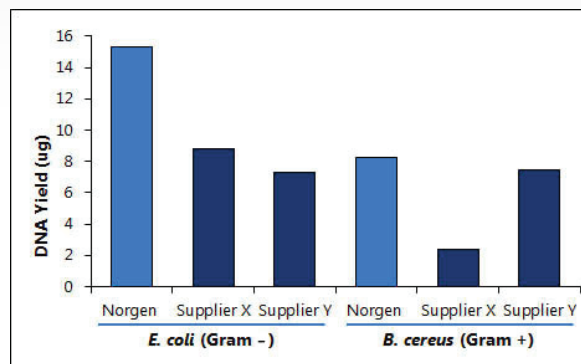


Figure 2. High Yield Purification. The high yield of Norgen's Bacterial Genomic DNA Isolation Kit is illustrated by purifying genomic DNA from 1 mL overnight culture (1×10^9 cells) of both a Gram positive (*B. cereus*) and a Gram negative strain (*E. coli*), and comparing the yield with two major competitors. The quantification of the DNA yield was performed by resolving 5 μ L of the 200 μ L of eluted DNA on a 1X TAE, 0.9% agarose gel followed by densitometry. With both types of bacteria, Norgen's kit was found to give a higher recovery than the competitor's kits.

Publications

Title	Authors	Journal	Year
Characterizing the endometrial microbiome by analyzing the ultra-low bacteria from embryo transfer catheter tips in IVF cycles: Next generation sequencing (NGS) analysis of the 16S ribosomal gene	Xin Tao, Jason M. Franasiak, Yiping Zhan, Richard T. Scott III, Jessica Rajchel, Jenna Bedard, <i>et al.</i>	Human Microbiome Journal	2017
<i>Streptomyces</i> exploration is triggered by fungal interactions and volatile signals	Jones SE, Ho L, Rees CA, Hill JE, Nodwell JR, Elliot MA	eLIFE	2017
Isolation, identification and characterization of <i>Paenibacillus polymyxa</i> CR1 with potentials for biopesticide, biofertilization, biomass degradation and biofuel production	Weselowski B, Nathoo N., Eastman AW, MacDonald J, Yuan ZC	BMC Microbiology	2016
Genome Sequence of the Historical Clinical Isolate <i>Burkholderia pseudomallei</i> PHLS 6	D'haeseleer P, Johnson SL, Davenport KW, Chain PS, Schoeniger J, <i>et al.</i>	Genome Announcements	2016

Ordering Information

Kit Name	Size	Cat. No
Bacterial Genomic DNA Isolation Kit	50 preps	17900
Bacterial Genomic DNA Isolation 96-Well Kit	2 x 96-well plates	17950

Related Products

Kit Name	Size	Cat. No
Milk Bacterial DNA Isolation Kit	50 preps	21550
Fungi/Yeast Genomic DNA Isolation Kit	50 preps	27300
Biofilm DNA Isolation Kit	50 preps	62300
Food DNA Isolation Kit	50 preps	54500



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