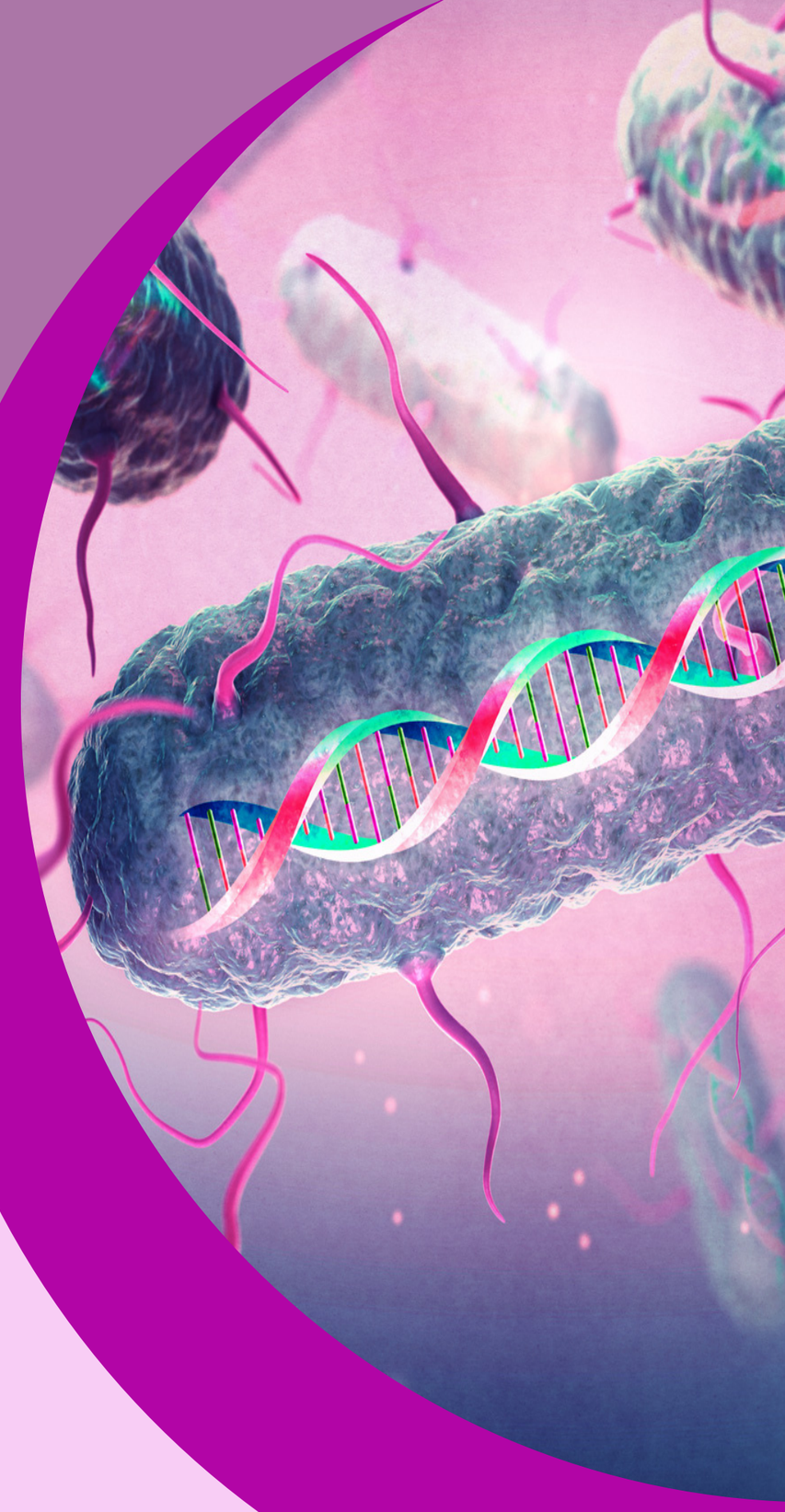
MagGenome®



Simple, quick DNA isolation method from bacteria samples

MAGNETIC NANOPARTICLE BASED BACTERIA DNA ISOLATION PROTOCOL

1. **Lysis**
2. **Binding**
3. **Washing**
4. **Elution**

XpressDNA Bacteria Kit

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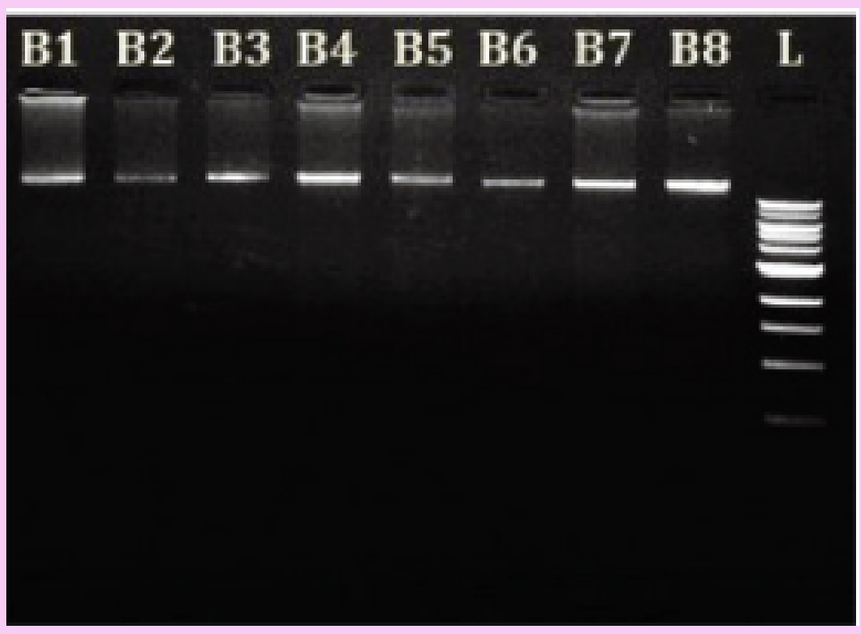
Product Description

XpressDNA Bacteria Kit is optimized for DNA isolation from bacteria along with purification using our patented Magnetic Nanoparticles. It provides a simple and efficient method for extraction of bacterial DNA from both Gram-negative and Gram-positive bacterial cells. The Magnetic Nanoparticles provide large surface area and highly specific nucleic acid binding capacity resulting in purification of high quality and quantity of double stranded genomic DNA from various strains. The purified DNA is approximately 20 - 50 kb in size with highest integrity, double strand ratio and is suitable for downstream applications like NGS, Southern blot, SNP genotyping, cloning, sequencing, restriction enzyme digestion and PCR or other enzymatic reactions without any further purification.

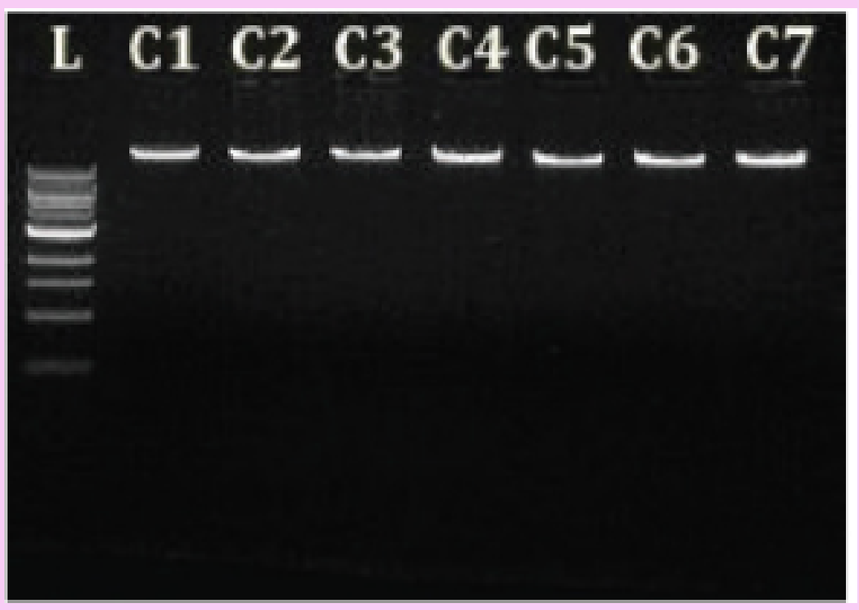
Highlights

- Contamination free final product
- Ready to go for sequencing without further purification
- Limited centrifugation steps
- No phenol or chloroform usage
- Wide compatibility with a variety of bacterial strains and mycobacterium
- Non-toxic and easy storage of kit reagents



Agarose gel electrophoresis of genomic DNA extracted from gram positive bacteria using XpressDNA Bacteria kit

B1: *Bacillus megaterium*
B2: *Enterococcus faecium*
B3: *Staphylococcus saprophyticus*
B4: *Lactobacillus fermentum*
B5: *Pediococcus acidilactici*
B6: *Bacillus subtilis*
B7: *Lysinibacillus xylanilyticus*
B8: *Staphylococcus hominis*
L: 1kb Ladder



Agarose gel electrophoresis of genomic DNA extracted from gram negative bacteria using XpressDNA Bacteria kit

L: 1kb ladder
Cl: *Acinetobacter pittii*
C2: *Klebsiella pneumoniae*
C3: *Enterobacter aerogenes*
C4: *Pseudomonas aeruginosa*
C5: *Enterobacter hormaechel*
C6: *Rhizobium cauense*
C7: *Betaproteobacterium*

Figure 1: Data shown right were collected from different experiments of the same bacterial strain (Lysinibacillus fusiformis) showing consistency in the purity of genomic DNA extracted

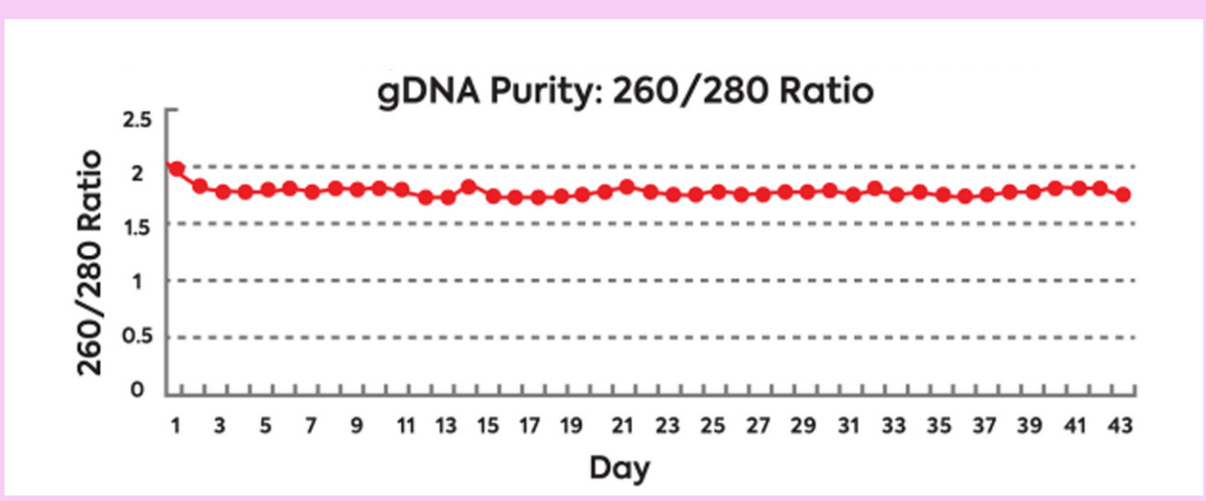


Figure 1: Quality of genomic DNA extracted using XpressDNA Bacteria kit

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