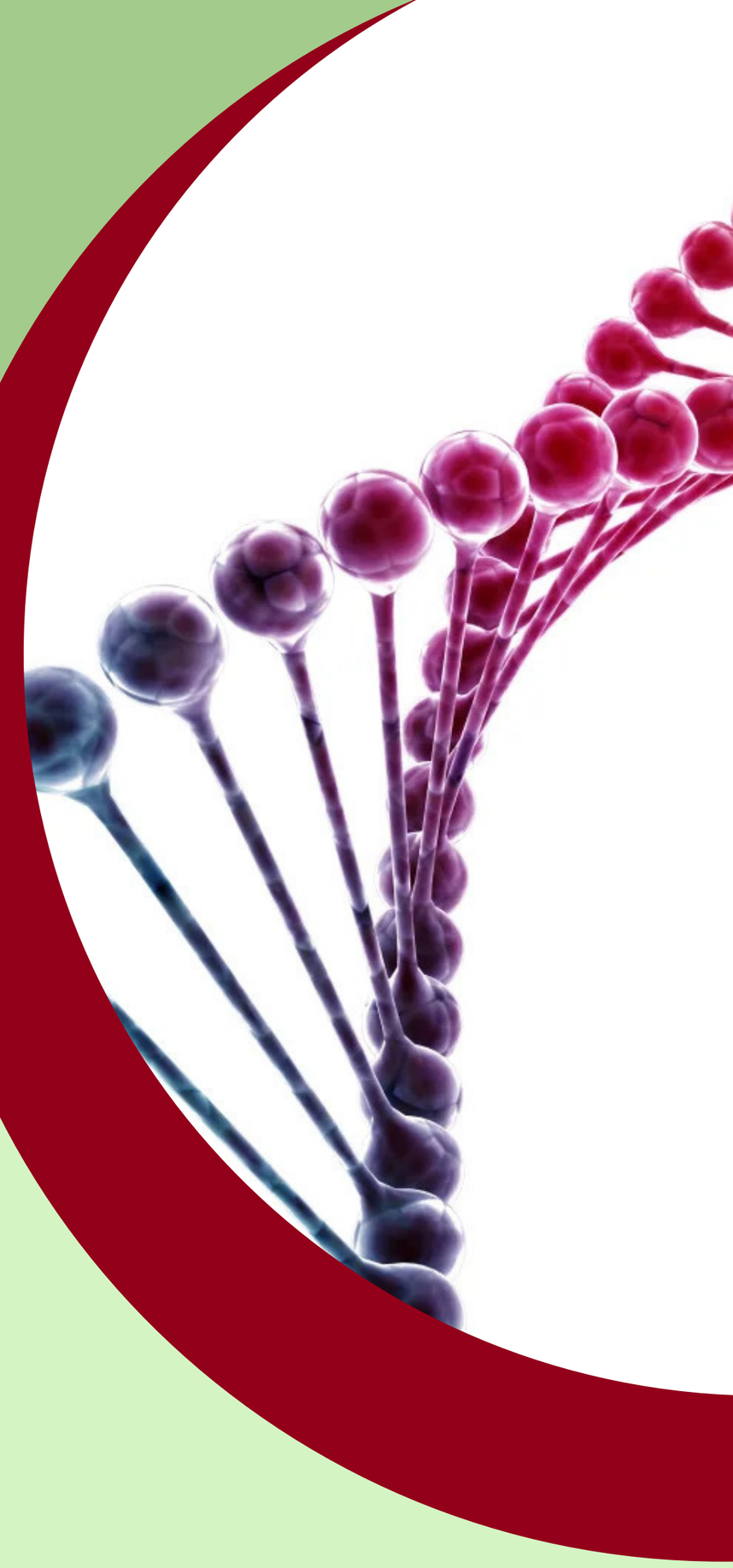
MagGenome®

Simple, quick DNA isolation method from plasmid samples



MAGNETIC NANOPARTICLE BASED PLASMID DNA ISOLATION PROTOCOL

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

XpressDNA Plasmid Kit

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Product Description

XpressDNA Plasmid Kit allows rapid and efficient isolation of plasmid DNA from gram negative bacteria. The extraction and purification of plasmid DNA is carried out using our unique and reliable patented magnetic nanoparticles-based technology. This method allows the isolation of low, medium and high copy number plasmids with high purity and negligible genomic DNA contamination. The complete experiment can be finished within 35-40 minutes. A 1.5 ml overnight culture of Gram negative bacteria with OD600 ≦ 1 can give a yield of 2-12µg of plasmid DNA with our kit. The extracted plasmid is suitable for use in downstream applications including PCR, restriction enzyme digestion, cloning, transformation, transfection etc.

Highlights

- Simple and single step lysis of the bacterial cell for plasmid extraction
- Proprietary DNA binding and washing steps ensuring pure and high DNA yield
- No contamination of genomic DNA and other proteins in the extracted plasmids
- Gives good results even with low copy number plasmids

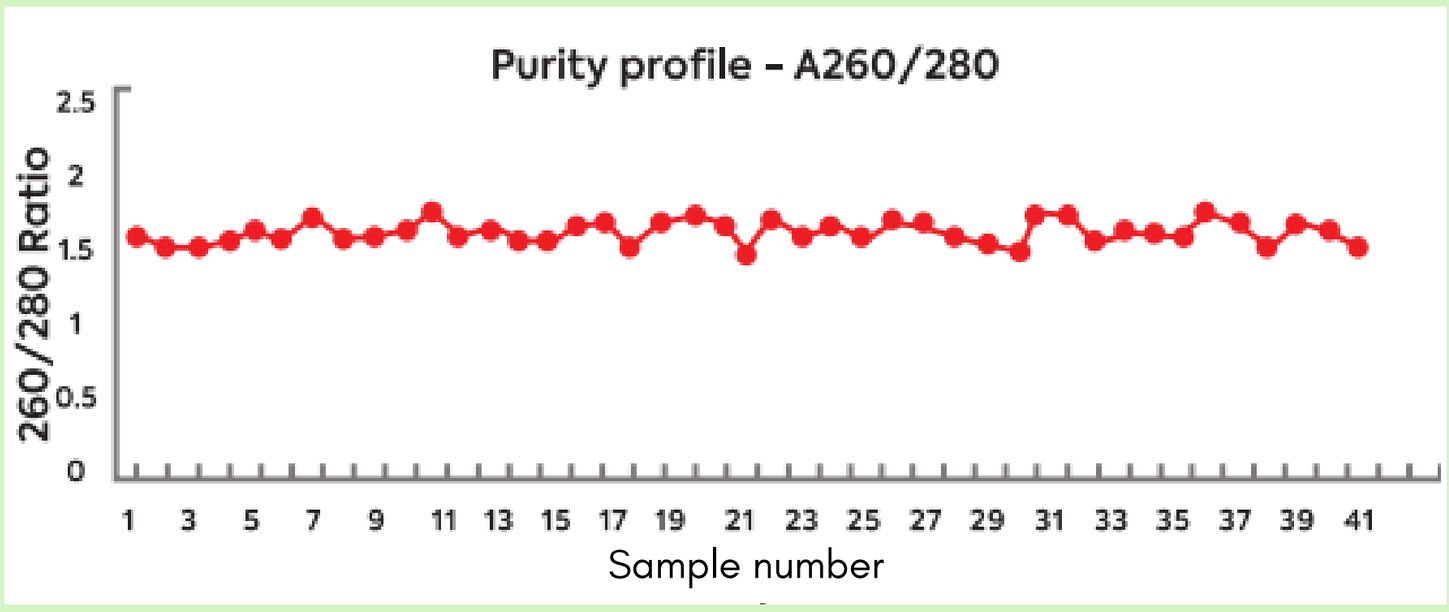
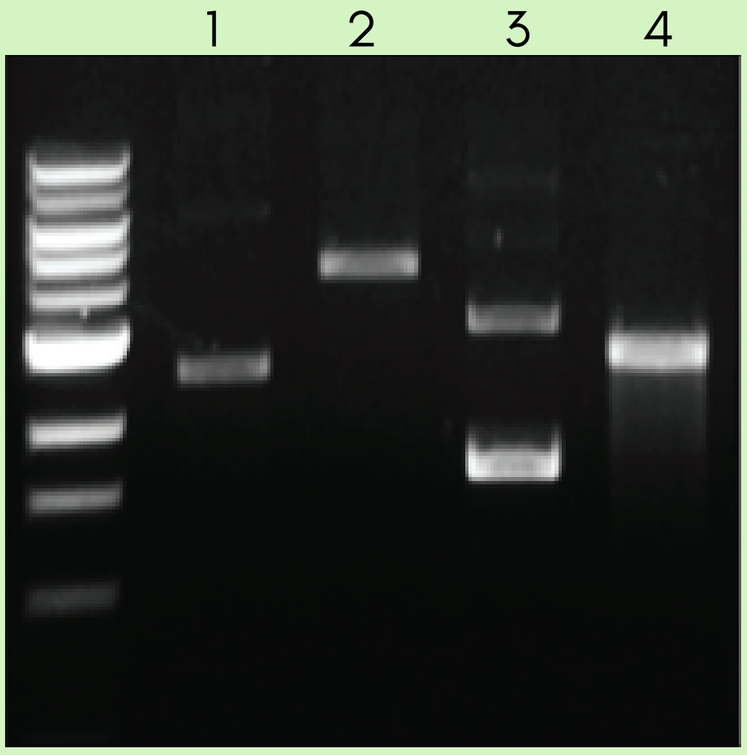


Figure 1: Quality of isolated plasmid in terms of 260/280 ratio using Nanodrop

Figure 1: Extracted plasmids are suitable for use in downstream applications including restriction enzyme digestion, PCR, cloning, transformation sequencing and transfection.



Restriction enzyme Digestion

pBR322 and pUC19 extracted using XpressDNA Plasmid kit were subjected to restriction digestion using EcoR1. Lane 1: uncut pBR322 Lane 2: cut pBR322; Lane 3: uncut pUC19, Lane 4: cut pUC19.

Email: info@maggenome.com Website: www.maggenome.us Phone : 1-844-624-6266