BL21（DE3）pLysS Chemically Competent Cell

Product specification

Catalog	Specification
CP01010	10×100μL
CP01020	20×100μL

Product Introduction

This chemically competent cell was treated by a special process which can be used for DNA thermal transformation. Using pUC19 plasmid detection, conversion efficiency of up to 10^7.BL21 (DE3) strain is suitable for expression of non-toxic proteins. The strain is a highly expressed host of the exogenous gene protein of T7 RNA polymerase as an expression system. The expression of the T7 phage RNA polymerase gene is regulated by the lacUV5 promoter of the lambda phage DE3 region, which is integrated on the BL21 chromosome. This chemically competent cell was treated by a special process which can be used for DNA thermal transformation. Using pUC19 plasmid detection, conversion efficiency of up to 10^7.

Protocol

1. Thaw a tube of BL21(DE3) Competent *E. coli* cells on ice until the last ice crystals disappear. Add add the target DNA (plasmid or ligation product) to the cell mixture. Place the mixture on ice for 30 minutes.

2. Heat shock at exactly 42°C for exactly 90 seconds. Place on ice for 5 minutes.

3. Pipette 500 μl of room temperature SOC into the mixture.

4. Place at 37°C for 60 minutes. Shake vigorously (200 rpm) or rotate. Warm selection plates to 37°C.

5. The instant centrifuge at 3000rpm, and the 100μl was left to gently blow the refundulation and coated it to the LB medium with the antibiotics for plasmid screening.

6. Incubate overnight at 37°C

Notes

1. Competent cell are best to slowly melt on the ice.

2. Mix the plasmid gently.