



Gene to Protein Pvt. Ltd.

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800 GENOME, 800 GENETIC



BL21 (DE3 pLysS) Agar Stab (*E. Coli*)

Cat # STR-004

Pack Size: 1 vial

Storage: 4°C

Avoid freezing and exposure to extreme temperatures.

Kit content:

S.No	Agar Stab	Quantity
1	BL21 (DE3 pLysS)	1 vial

Introduction

The BL21 (DE3 pLysS) Agar Stab is a bacterial strain of *Escherichia coli* specifically designed for the overexpression of recombinant proteins. The BL21 (DE3) strain is engineered with the pLysS plasmid, which supplies T7 lysozyme to inhibit basal expression of T7 RNA polymerase, thereby enhancing protein expression quality. This strain is provided as an agar stab for short-term storage and easy transformation.

Product Features

- Application: Suitable for overexpression of recombinant proteins
- Resistance: Chloramphenicol
- pLysS (carries the gene encoding T7 lysozyme)

Revival and Inoculation Procedure

1. Streaking on LB Plate:

- Allow the agar stab to come to room temperature.
- Aseptically take a sterile inoculating loop and insert it into the agar stab to collect a small portion of the culture.
- Gently streak the culture on a plain LB agar + Chloramphenicol plate in a zig-zag pattern to isolate individual colonies.
- Incubate the plate at 37°C overnight or until distinct colonies are visible.

2. Inoculation of Separate Colony:

- Choose a well-isolated colony from the LB agar plate.
- Using a sterile inoculating loop, carefully pick the selected colony.
- Inoculate the colony into a tube containing liquid LB medium with the Chloramphenicol for further downstream processes.
- Incubate the culture at 37°C with shaking (typically at 200-225 rpm) until the desired density is reached.

Quality Control

- Tested for absence of contamination and verified for strain identity
- Guaranteed to be free from mycoplasma, virus, and other common contaminants

Note

- Strictly adhere to aseptic techniques to prevent contamination.
- This product is for research use only and is not intended for human or animal diagnostic or therapeutic uses.