pK18mobsacB

87097™

Description

pK18mobsacB is a cloning vector allowing mobilization into a wide range of Gram-negative and Gram-positive bacteria. It is distributed in Escherichia coli SCS110. After mobilization, the plasmid can be maintained by integration into the host chromosome via homologous recombination. Excision of the intervening plasmid sequence by a double cross-over event can be facilitated by the selection of medium containing 10% sucrose. The sacB gene has been modified to eliminate the HindIII and EcoRI sites in the coding region.

Organism: *Bacillus subtilis* subsp. *subtilis* (Ehrenberg) Cohn
Clone type: Vector
Shipping information: *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Frozen
Storage conditions: -80°C or colder

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories*

(BMBL), U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Insert Information

Insert size (kb): 1.8999999999999999
Type of DNA: genomic
Target gene: levansucrase
Gene product: levansucrase [sacB]

Vector Information

Construct size (kb): 5.7
Vector name: pK18mobsacB (plasmid)
Type of vector: plasmid
Construction: pK18, pSUP102 (RP4 mob), sacB
Insert detection: lacZ'
Markers: sacB; kanR
MCS: EcoRI...HindIII
Replicon: oriT; oriV

Growth Conditions

Medium:

ATCC Medium 1236: LB Medium (ATCC medium 1065) with 25 mcg/ml kanamycin
Temperature: 37°C

Notes

Restriction digests of the clone gave the following sizes (in kb): EcoRI: 5.7 ; HindIII: 5.7 ; PstI: 5.7.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pK18mobsacB (ATCC 87097)

References

References and other information relating to this material are available at www.atcc.org.

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