pK19mobsacB plamid in *E. coli* SCS110

87098™

Description

This is a cloning vector that allows mobilization into a wide range of Gram- and Gram+ bacteria. 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 selection on medium containing 10% sucrose. The sacB gene has been modified to eliminate the HindIII and EcoRI sites in the coding region. This vector differs from pK18mobsacB (ATCC# 87097) only in the orientation of the polylinker.

- Gene (Amst.) 145: 69-73, 1994

Organism: *Bacillus subtilis* subsp. *subtilis* (Ehrenberg) Cohn
Clone type: Vector
Host: *Escherichia coli* SM10 lambda pir

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

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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

Vector Information

Construct size (kb): 5.66
Vector name: pK19mob
Type of vector: plasmid
Construction: pK19, pSUP102 (RP4 mob) sacB; the sacB gene was inserted into the pK19mob vector.
Vector information:
Insert: sacB
Genome: *Bacillus subtilis*
Gene name: levansucrase
Insert end: Ecl136II
Other: oriT
Other: oriV
Cloning sites: HindIII; SphI; PstI; SalI; XbaI; BamHI; SmaI; EcoRI
Insert detection: lacZ'

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Markers: sacB; kanR
MCS: HindIII….EcoRI

Growth Conditions

Temperature: 37°C

Notes

Restriction digests of the clone gave the following sizes (in kb): EcoRI 5.6 ; HindIII 5.6 ; PstI 5.6.

-ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pK19mobsacB plamid in *E. coli* SCS110 (ATCC 87098)

References

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

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