ATCC

Product Sheet

pK19mobsacB plamid in *E. coli* SCS110 (ATCC® 87098™)

Please read this FIRST

Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section

Biosafety Level
1

Intended Use

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

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: pK19mobsacB plamid in *E. coli* SCS110 (ATCC® 87098™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

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
Designation: pK19mobsacB plamid in *E. coli* SCS110
Distribution Host: *Escherichia coli* SCS110

Propagation

Medium
ATCC Medium 1065 (see below) plus kanamycin (50 mcg/ml) ATCC Medium 1065: Tryptone (Difco 0123), 10.0 g Yeast Extract (Difco 0127), 5.0 g NaCl, 10.0 g Distilled water, 1.0 L

Growth Conditions
Temperature: 37°C

Propagation Procedure
1. Open vial according to instructions.
2. Asceptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 µL to a test tube containing 5 mL LB+ kanamycin (50 µg/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37°C.
3. Isolate DNA using standard plasmid preparation procedures.

Vector Information

Construct size (kb): 5.66
Marker(s): kanR,sacB

Vector type: plasmid
Cloning sites: HindIII SphI PstI SalI XbaI BamHI SmaI EcoRI
Construction: pK19, pSUP102 (RP4 mob) sacB; the sacB gene was inserted into the pK19mob vector.
Insert: sacB
Genome: *Bacillus subtilis*
Gene name: levansucrase
Insert end: Ecl136II
Insert end: XbaI (modification: blunt ended)
Insert size (kb): 1.9
Complete coding sequence ?: Y

Vector: pK19mob
Vector size (kb): 3.76
Type of vector: plasmid
Vector ends: AsuII (modification: blunt ended)

Host range: *Escherichia coli* ; *Salmonella* sp. ; *Serratia* sp.
Features (with orientation and location, if known):
Marker: kanR, □
Marker: sacB (sucrose sensitivity)
Other: oriT
Other: oriV
Insert detection: lacZ', □
MCS: HindIII….EcoRI

References

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

Notes

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.
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