BCCM · GeneCorner

Bacterial host strain

Escherichia coli K12 SM10(λpir)

These validated data are a snapshot at a given moment; further updates are always possible.

Species:	*Escherichia coli*
Group:	K12
Strain designation:	SM10(λpir)
Accession number:	**LMBP 3889**
Deposit date:	19/11/1998
Depositor:	Dr J. J. Mekalanos[1] [1] Department of Microbiology and Molecular Genetics, Harvard Medical School, Boston, USA
Other culture collection numbers:	/
Containment level:	This strain has been assigned the containment level 'Class 1' following the European Directive 2009/41/EC on the contained use of genetically modified organisms, and its updates (see also the Belgian risk group classification).
Medium:	LB-Lennox
Selection marker:	kanamycin (50 μg/ml)
Cultivation temperature:	37°C
Original reference:	/
Related reference:	Simon et al., Biotechnology 1 (1983), 784-791 (related to SM10)
Genotype:	*thi thr leu tonA lacY supE recA*::RP4-2-Tc::Mu Km *λpir*
Phenotype:	Kan^R
Properties:	Donor strain (mobilizing strain) carrying the transfer genes of the broad host range IncP type plasmid RP4 integrated in its chromosome. Useful for mobilizing mobRP4 plasmids. The presence of *λpir* allows the replication of a defective R6K suicide plasmid and derivatives thereof.
Restricted use:	BCCM MTA

Culture recovery and preservation instructions

The enclosed culture has been grown overnight to saturation, confirming its viability. BCCM/GeneCorner advises to recover it immediately on receipt before use or storage.

Recovery: subculturing into liquid or solid medium according to the cultivation conditions above

Long-term preservation: lyophilisation
cryopreservation (at least at -80°C)