**LMBP BACTERIAL HOST STRAIN**

**IM93B**

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

**Species:** Escherichia coli

**Group:** K12

**Accession number:** LMBP 9584

**Deposit date:** 19/05/2015

**Depositor:** Dr I. Monk

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**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:** /

**Cultivation temperature:** 37°C

**Original reference:** Monk et al., MBio 6 (2015), e00308-15 [PMID: 26015493]

**Related reference:** /

**Genotype:** mcrA Δ(mrr-hsdRMS-mcrBC) Φ80lacZΔM15 ΔlacX74 recA1 araD139 Δ(ara-leu)7697 galU galK rpsL endA1 nupG Δdcm OδPN25-hsdMS/S (CC93-2/CC93-1) OδPhelp-hsdMS (CC93-3)

**Phenotype:** Str(R)

**Properties:** This bacterial host strain was derived from *E. coli* K12 DH10B by deleting the *dcm* gene encoding cytosine methylation. Additionally, the *hsdMS* genes encoding methylase and specificity genes (from *Staphylococcus aureus* sequence type 93 - JKD6159) were introduced onto the chromosome at neutral locations via recombineering. The strain can be transformed efficiently with large plasmids due to *deoR* (*nupG*) mutation. Plasmids isolated from this strain transform *S. aureus* sequence type 93 - JKD6159 at high efficiency.

**Restricted use:** BCCM MTA
Culture recovery and preservation instructions

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

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

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