
LMBP BACTERIAL HOST STRAIN

DH5 α F

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

<u>Species:</u>	<i>Escherichia coli</i>
<u>Group:</u>	K12
<u>Accession number:</u>	LMBP 1596
<u>Deposit date:</u>	01/12/2008
<u>Depositor:</u>	Prof. Dr E. Remaut ^{1 2} ¹ Department for Molecular Biomedical Research, VIB, Ghent, Belgium ² Department of Biomedical Molecular Biology, Ghent University, Ghent, Belgium
<u>Other culture collection numbers:</u>	/
<u>Containment level:</u>	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).
<u>Medium:</u>	LB-Lennox
<u>Selection marker:</u>	/
<u>Cultivation temperature:</u>	37°C
<u>Original reference:</u>	/
<u>Related reference:</u>	Woodcock et al., Nucl. Acids Res. 17 (1989), 3469-3478 [PMID: 2657660] Grant et al., Proc. Natl. Acad. Sci. USA 87 (1990), 4645-4649 [PMID: 2162051] Hanahan, J. Mol. Biol. 166 (1983), 557-580 [PMID: 6345791]
<u>Genotype*:</u>	<i>F+ Δ(argF-lac)169 ϕ80dlacZ58(M15) ΔphoA8 glnX44(AS) λ-deoR481 rfbC1 gyrA96 recA1 endA1 thiE1 hsdR17</i>
<u>Phenotype:</u>	NalR rK- mK+
<u>Properties:</u>	This is a useful strain for Lac α complementation. The strain does not contain the lacI ^q gene and therefore repression on the lac promoter, present on high-copy plasmids, is incomplete. Consequently, this strain does not require IPTG to induce expression from the lac promoter even though it expresses the Lac repressor. The copy number of most plasmids exceeds the repressor number in the cells. If there are concerns about obtaining maximal levels of expression, add IPTG to a final concentration of 1 mM. This strain contains the F factor of NK3 and therefore can be used for infection with M13 or fd phages and derivatives.
<u>Restricted use:</u>	BCCM MTA

* Source: description DH5 α [CGSC 12384](#), with F+ instead of F-

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)