

E. coli Strains

The following strains are supplied in vials as lyophilized culture. The vial is broken and the dry culture is rehydrated at the time of use. To revive, streak the bacteria onto a plate.

C600

Features and Applications :

1. It is a permissive host and allows both parental and recombinant phage to grow.
2. Preferred strain to titre and propagate Lambda gt10.
3. Used for cDNA cloning.

Genotype: *thi-1, thr-1, leuB6, lacY1, tonA21, supE44*

Reference: Jendrisak, J., Young, R.A. and Engel, J. (1987) In : Guide to Molecular Cloning Techniques, Berger, S and Kimmel, A., eds., Academic press, San Diego, 359.

Ordering Information:

Product	Size	Cat #
C600	1 vial	105331

HB101

Features and Applications :

1. It is a general host for pBR322 and other plasmids that do not contain α -complementation.
2. It is useful for cloning vectors that do not require α - complementation for blue / white screening.
3. Since, the strain is rec A⁻, undesirable recombination events are prevented and insert is more stable.

Genotype: *thi-1, hsdS20 (r_B⁻, m_B⁻), supE44, rec A13, ara-14, leu B6, pro A2, lac Y1, rpsL20 (str^r), xyl-5, mtl-1*

Reference: Lacks, S and Greenberg, J.R. (1977), J. Mol. Biol, **114**, 153.

Ordering Information:

Product	Size	Cat #
HB101	1 vial	105332

LE392

Features and Applications :

1. It lacks the *E. coli* K restriction system.
2. It is a permissive host, allowing both recombinant and parental phage to grow.
3. Does not allow colour selection or IPTG induction of expression.
4. It is a recombination proficient strain.
5. If colour selection is not required, it should be the primary strain for amplification of recombinant phage.
6. It is used for cDNA and genomic cloning.
7. Used for screening a cDNA library with nucleic acid probes.

Genotype: *hsd R574, (r_k⁻, m_k⁺), supE44, supF58, lacY1 or Δ (lac1ZY)6, gal K2, gal T22, metB1, trpR55.*

Reference: Murray, N. (1977) Mol. Gen. Genet. **150**, 53.

Ordering Information:

Product	Size	Cat #
LE392	1 vial	105333