

---

## KW251

---

**Features and Applications:**

1. It is a permissive host strain, used as an alternative for genomic cloning.
2. It lacks the *E.coli* K restriction system and is also recD<sup>-</sup>.
3. Certain eukaryotic clones are unable to grow on rec<sup>+</sup> host clones, in such cases when low cloning efficiencies are noted using conventional hosts, KW 251 can be substituted.
4. It is mcr A<sup>-</sup> and mcr B<sup>-</sup>, therefore genomic DNA clones containing methylated cytosine residues can be substituted.

**Genotype:** *supE44, galK2, galT22, metB1, hsdR2, mcrB1, mcrA, [argA81::Tn10], rec D1014.*

**Ordering Information:**

Product	Size	Cat #
KW251	1 vial	105334

---

## JM101

---

**Features and Applications:**

1. JM101 cells carry the F' episome for pili allowing infection by filamentous phage such as M13 and by M13 helper phage for single stranded rescue from phagemid vectors.
2. F' episome also has the *lac I<sup>q</sup>* repressor gene producing 10 fold more lac repressor than is found in most strains, thereby ensuring more stringent repression of toxic proteins.
3. F' episome has the *lac I<sup>q</sup>Δm15* mutation which provides the complementation of the β-galactosidase gene.
4. This host allows blue / white colour selection assay for the plaques on plates supplemented with X-GAL and IPTG.
5. Used for the propagation of filamentous phage such as M13 and M13 helper phage for single stranded rescue from phagemid vectors.
6. Used for methylation of plasmid DNA to allow efficient transfer to an *hsdR<sup>+</sup> E.coli* host which is *hsdM<sup>+</sup>*

**Genotype:** *supE, thi, Δ (lac-pro AB), [F', tra D36, proAB, lac I<sup>q</sup>ΔM15]*

**Reference:** Yanisch-Perron, C.et al ( 1985), Gene, 33, 103.

**Ordering Information:**

Product	Size	Cat #
JM101	1 vial	105335