

***E. coli* K12**  
**ER2420/pACYC184**



**E4152S**

**Lot: 0101112**

**Store at -20°C**

**Description:** A suspension of *E. coli* strain ER2420 containing the plasmid pACYC184 which has been grown in rich medium and brought to 50% glycerol. ER2420 background: *EcoK* r<sup>-</sup> m<sup>-</sup> McrBC<sup>-</sup> Mrr<sup>-</sup> Dam<sup>+</sup> Dcm<sup>+</sup>.

**Genotype:** F<sup>-</sup> *ara-14 leu fhuA2 Δ(gpt-proA)62 lacY1 glnV44 galK2 rpsL20(Str<sup>R</sup>) xyl-5 mtl-1 Δ(mcrC-mrr)*<sub>HB101</sub>

**Antibiotic Resistance:** The plasmid pACYC184 carries a gene encoding resistance to tetracycline (tet) and a gene encoding resistance to chloramphenicol (chloramphenicol acetyltransferase). To maintain the plasmid, cells should be grown with 25–50 µg/ml of tet and 35–50 µg/ml of cam. The plasmid, which is present at a low copy number, cannot be amplified using a standard chloramphenicol procedure but can be amplified using spectinomycin (50 µg/ml of growth media).

**Notes:** Storage at -70°C is recommended for periods longer than 30 days. Avoid repeated freeze/thaw cycles.

**References:**

1. Chang, A. and Cohen, S. (1978) *J. Bacteriol.* 134, 1114–1156.
2. Rose, R.E. (1988) *Nucleic Acids. Res.*16, 355.

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