

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



1-800-632-7799
info@neb.com
www.neb.com



E4152S 010140719071

E4152S

Lot: 0101407

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⁻ m⁻ McrBC⁻ Mrr⁻ Dam⁺ Dcm⁺.

Genotype: F⁻ *ara-14 leu fhuA2 Δ(gpt-proA)62 lacY1 glnV44 galK2 rpsL20(Str^R) xyl-5 mtl-1 Δ(mcrC-mrr)*_{HB101}

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.

CERTIFICATE OF ANALYSIS

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



1-800-632-7799
info@neb.com
www.neb.com



E4152S 010140719071

E4152S

Lot: 0101407

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⁻ m⁻ McrBC⁻ Mrr⁻ Dam⁺ Dcm⁺.

Genotype: F⁻ *ara-14 leu fhuA2 Δ(gpt-proA)62 lacY1 glnV44 galK2 rpsL20(Str^R) xyl-5 mtl-1 Δ(mcrC-mrr)*_{HB101}

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.

CERTIFICATE OF ANALYSIS