

Plasmid pL0005, for Transfection in *Plasmodium berghei*

Catalog No. MRA-774

Product Description:

MRA-774 is a *Plasmodium berghei* (*P. berghei*) transformation plasmid, pDEFhDHFR, used for insertion/replacement (single & double crossover) with dihydrofolate reductase (*dhfr*) selectable marker. The ampicillin resistance gene, *amp*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). Lot 70043122 was produced from a preparation of BEI Resources seed lot 4731873, grown in Luria-Bertani broth with ampicillin (100 µg per mL) for 1 day at 37°C in an aerobic atmosphere, extracted using a QIAprep® Spin Miniprep Kit (QIAGEN® 27104) and vialled in 10 mM Tris-HCl, pH 8.5.

Lot: 70043122

Manufacturing Date: 13MAY2021

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 4270 base pairs	4278 base pairs ¹
Genotypic Analysis Sequencing of human <i>dhfr</i> selectable marker	<i>hDHFR</i> sequence present	<i>hDHFR</i> sequence present
Antibiotic Resistance Ampicillin (encoded by <i>bla</i> gene)	<i>bla</i> sequence present	<i>bla</i> sequence present
Concentration by PicoGreen® Measurement	Report results	0.2 µg in 20 µL per vial (10 µg per mL)
Amount per Vial	Report results	~ 200 ng per vial
OD₂₆₀/OD₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.9

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence and map are provided on the BEI Resources webpage.

/Sonia Bjorum Brower/

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Technical Manager or designee, ATCC Federal Solutions

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