

Plasmid pMRLB.7 Containing Gene Rv3875 (Protein ESAT-6) from *Mycobacterium tuberculosis*

Catalog No. NR-50170

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Product Description:

NR-50170 is a recombinant expression vector containing *Mycobacterium tuberculosis* gene Rv3875, which encodes the early secretory antigenic target ESAT-6, also known as esxA. NR-50170 was produced in *Escherichia coli* MAX Efficiency® DH5α™ cells (Invitrogen™ 18258-012) and extracted using the QIAGEN® Plasmid Maxi Kit.

Lot: 70066955

Manufacturing Date: 24OCT2023

TEST	SPECIFICATIONS	RESULTS
PCR Amplification and Sequencing of Insert (~ 290 base pairs)	100% sequence identity to <i>M. tuberculosis</i> , strain H37Rv gene Rv3875 (GenBank: FJ014499.1)	100% sequence identity to <i>M. tuberculosis</i> , strain H37Rv gene Rv3875 (GenBank: FJ014499.1)
Digital Restriction Digest¹ Linearization with <i>NdeI</i> Linearization with <i>XhoI</i> Digestion with <i>NdeI</i> and <i>XhoI</i>	~ 3.9 kb ~ 3.9 kb ~ 0.3 kb (insert); ~ 3.6 kb (vector)	~ 3.9 kb ~ 3.9 kb ~ 0.3 kb (insert); ~ 3.6 kb (vector)
Concentration by PicoGreen® Measurement	Report results	0.042 µg in 20 µL per vial (2.1 µg/mL)

¹Digital restriction digest was performed based on the NGS sequence of the complete plasmid. No enzyme digests were performed.

/Sonia Bjorum Brower/

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08 MAY 2024

Technical Manager or designee, ATCC Federal Solutions

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