

Plasmodium yoelii, Strain 17X-L [17X-F]

Catalog No. MRA-680

Product Description:

Plasmodium yoelii (*P. yoelii*), strain 17X-L was obtained from Dr. A Jayawardena from Yale University. MRA-680 was produced by inoculation of BEI Resources lot 50073334 into Swiss Webster ND4 mice. Infection was allowed to progress for 7 days. Infected blood was collected by retro-orbital bleeding and used to inoculate 17 Swiss Webster ND4 mice. Infection was allowed to progress until parasitemia reached > 13%. After 4 days, infected blood was collected by retro-orbital bleeding.

Lot: 70019945

Manufacturing Date: 13NOV2018

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis¹ Circumsporozoite Surface Protein 1 (CSP1) gene PCR amplicon analysis Sequencing of CSP1 gene (~ 1170 base pairs)	~ 900 to 1100 base pair amplicon Consistent with <i>P. yoelii</i>	~ 1000 base pair amplicon Consistent with <i>P. yoelii</i> (Figure 1)
Level of Parasitemia Pre-freeze (4 days post-infection) ² Post-freeze (5 days post-infection) ¹	Report results ≥ 1%	13.65% 3.99%
Viability (5 days post-infection)¹	Growth in inoculated mice	Growth in inoculated mice

¹Testing completed on vialled, post-freeze material

²Testing completed on bulk material prior to vialing and freezing

Figure 1: MRA-680 CSP1 Sequence

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ATGAAGAAGTGTACCATTTTAGTTGTAGCGTCACTTTTATTAGTTGATTCTCTACTTCCAGGATATGGACAAAAATAAAAAGTGTCCAA
GCCCAAAGAACTTAAACGAGCTATGTTACAATGAAGAAAATGATAATAAATTGTATCACGTCCTTAACTCGAAGAATGGAAAAATA
TACAATCGAAATATAGTCAACAGATTACTTGGCGATGCTCTCAACGGAAAACCAGAAGAAAAAAAAAAGATGATCCCCAAAAGATGG
CAACAAAGATGATCTTCCAAAAGAAGAAAAAAAAAAGATGATCTTCCAAAAGAAGAAAAAAAAAAGATGATCCCCAAAAGATCCTAAAAA
AGATGATCCACCAAAAAGAGGCTCAAAAATAAATTGAATCAACCAGTAGTGGCAGATGAAAATGTAGATCAAGGGCCAGGAGCACCACA
AGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAGGGGCCAGGAGCACCACAGGGGCCAGGAGCACCACAAGGGCCAGGAGCACC
ACAAGGACCAGGAGCACCACAAGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAAGGGGCCAGGAGC
ACCACAAGGGCCAGGAGCACCACAAGGACCAGGAGCACCACAGGGTCCAGGAGCACCACAAGGACCAGGAGCACCACAAGGACCAGG
AGCACCACAAGGTCCAGGAGCACCACAGGGTCCAGGAGCACCACAGGGTCCAGGAGCACCACAAGAACCACCCCAACAACCACCACA
ACAGCCACCACAACAGCCACCACAACAGCCACCACAACAGCCACCACAACAACCACGCCACAGCCAGATGGTAATAACAACAATAA
CAATAATAATGGTAATAATAATGAAGATTCTTATGTCCCAAGCGCGGAACAAATACTAGAAATTTGTTAAACAGATAAGTAGTCAACT
CACAGAGGAATGGTCTCAATGTAGTGTAACCTGTGGTTCTGGTGTAAGAGTTAGAAAACGAAAAAATGTAACAAGCAACCAGAAAA
TTTGACCTTAGAGGATATTGATACTGAAATTTGTAAAATGGATAAATGTTCAAGTATATTTAATATTGTAAGCAATTCATTAGGATT
TGTAATATTATTAGTATTAGTATTCTTTTAAATTAAA
    
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