

Plasmodium yoelii subsp. yoelii, Strain 17X

Catalog No. MRA-749

Product Description:

Plasmodium yoelii subsp. *yoelii* (*P. yoelii* subsp. *yoelii*), strain 17X was isolated by I. Landau from wild-caught thicket rat (*Thamnomys rutilans*) no. 17X, at La Maboké Field Station in Central African Republic, April 1965. MRA-749 was produced by inoculation of BEI Resources seed lot 58827729 into 3 ND4 Swiss Webster mice. Infection was allowed to progress for 8 days. Infected blood was collected by retro-orbital bleeding and used to inoculate 17 ND4 Swiss Webster mice. Infection was allowed to progress until parasitemia reached 5%. Infected blood was collected by retro-orbital bleeding.

Lot: 70053230

Manufacturing Date: 21NOV2022

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis¹ Circumsporozoite Surface Protein 1 (CSP1) gene PCR amplicon analysis Sequencing of CSP1 gene (~ 1280 base pairs)	~ 900 to 1500 base pair amplicon Consistent with <i>P. yoelii</i>	~ 1300 base pair amplicon Consistent with <i>P. yoelii</i> (Figure 1)
Level of Parasitemia Pre-freeze (3 days post-infection) ² Post-freeze (7 days post-infection) ¹	≥ 2% ≥ 1%	5.9% 2.2%
Viability (7 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-749 CSP1 Sequence

ATGARGAAGTGTACCATTTTAGTTGTAGCGTCACTTTTATTAGTTGATTCTCTACTTCCAGGATATGGACAAAATAAAAGTGTCCAAGCCCAAAGAA
ACTTAAACGAGCTATGTTACAATGAAGAAAATGATAATAAATTGTATCACGTCTTAACTCGAAGAATGGAAAAATATACAATCGAAATATAGTCAA
CAGATTACTTGGCGATGCTCTCAACGGAAAACAGAGAAGAAAAAAGATGATCCCCAAAAGATGGCAACAAAGATGATCTTCCAAAAGAAGAAAA
AAAGATGATCTTCCAAAAGAAGAAAAAAGATGATCCCCAAAAGATCCTAAAAAAGATGATCCACCAAAAAGAGGCTCAAAATAAATTGAATCAAC
CAGTAGTGGCAGATGAAAATGTAGATCAAGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAGGGGCCAGGAGCACC
ACAGGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAAGGACCAGGAGCACCACAAGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAAGGG
CCAGGAGCACCACAGGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAAGGACCAGGAGCACCACAAGGGTCCAGGAGCACCACAAGGACCAGGAG
CACCACAAGGACCAGGAGCACCACAAGGTCCAGGAGCACCACAGGGTCCAGGAGCACCACAAGGTCCAGGAGCACCACAAGGACCAGGAGCACCACA
GGGGCCAGGAGCACCACAAGGACCAGGAGCACCACAAGGACCAGGAGCACCACAAGGGGCCAGGAGCACCACAAGGGCCAGGAGCACCACAAGAACCA
CCCCAACACACCCCAACAACACACCAACAGCCACCACAACAGCCACCACAACAGCCACCACAACAGCCACCACAACACACGCCACAGCCAG
ATGGTAATAACAACAATAACAATAATGGTAATAATAATGAAGATTCTTATGTCCCAAGCGGGAACAAATACTAGAAATTTGTTAAACAGATAAG
TAGTCAACTCACAGAGGAATGGTCTCAATGTAGTGTAACCTGTGGTTCTGGTGTAAGAGTTAGAAAACGAAAAATGTAAACAAGCAACCAGAAAAT
TTGACCTTAGAGGATATTGATACTGAAATTTGTAAATGGATAAATGTCAAGTATATTTAATATTGTAAGCAATTCATTAGGATTGTAAATATTAT
TAGTATTAGTATTCTTTAATTAA

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