

**Plasmodium berghei, Strain ANKA C115cy1**

**Catalog No. MRA-871**

**Product Description:**

*Plasmodium berghei* (*P. berghei*), strain ANKA C115cy1 was cloned in Swiss mice from the 8417 (HP) clone, which, in turn, was derived from the original ANKA strain. MRA-871 was produced by inoculation of BEI Resources lot 60352778 into Swiss Webster ND4 mice. Infection was allowed to progress for 8 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 7 days, infected blood was collected by retro-orbital bleeding.

**Lot: 70044010**

**Manufacturing Date: 03MAY2021**

TEST	SPECIFICATIONS	RESULTS
<b>Genotypic Analysis<sup>1</sup></b> Circumsporozoite Surface Protein 1 (CSP1) gene PCR amplicon analysis Sequencing of CSP1 gene (~ 1220 base pairs)	~ 900 to 1100 base pair amplicon ≥ 95% sequence identity to <i>P. berghei</i> , strain ANKA (GenBank: M14135.1)	~ 1000 base pair amplicon 99% sequence identity to <i>P. berghei</i> , strain ANKA (GenBank: M14135.1) (Figure 1)
<b>Level of Parasitemia</b> Pre-freeze (7 days post-infection) <sup>2</sup> Post-freeze (4 days post-infection) <sup>1</sup>	Report results ≥ 1%	13.43% 3.11%
<b>Viability (4 days post-infection)<sup>1</sup></b>	Growth in inoculated mice	Growth in inoculated mice

<sup>1</sup>Testing completed on vial, post-freeze material

<sup>2</sup>Testing completed on bulk material prior to vialing and freezing

**Figure 1: MRA-871 CSP1 Sequence**

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AAATGARGAA GTGTACCATT TTAGTTGTAG CGTCACTTTT ATTAGTTAAT TCTCTACTTC CAGGATATGG ACAAATAAAA
AGCATCCAAG CCCAAAGGAA CTTAAACGAG CTATGTTACA ATGAAGGAAA TGATAATAAA TTGTATCAGC TGCTTAACTC
TAAGAATGGA AAAATATACA ATCGAAATAC AGTCAACAGA TTAYTGCCGA TGCTCCGAAG RAAAAAAAAAT GAGAAAAAAAA
ACGAAAAAAT AGAGCGTAAT AATAAATTGA AACAAACCACC ACCACCACCA AACCCAAATG ACCCACCACC ACCAAACCCA
AATGACCCAC CACCACCAAA CCCAAATGAC CCACCACCAC CAAACCCAAA TGACCCACCA CCACCAAACG CAAATGACCC
ACCACCACCA AACGCAAATG ACCCAGCACC ACCAAACGCA AATGACCCAG CACCACCAAA CGCAAATGAC CCAGCACCAC
CAAACGCAAA TGACCCAGCA CCACCAAACG CAAATGACCC ASCACCACCA AACSCAAATG ACCCAGCACC ACCAAACGCA
AATGACCCAC CACCACCAAA CCCAAATGAC CCAGCACCAC CACAAGGAAA TAACAATCCA CAACCACAGC CACGGCCGCA
GCCACAACCA CAGCCACAGC CACAACCACA GCCACAGCCA CAACCACAGC CACGACCACA GCCACAACCA CAGCCAGGTG
GTAATAACAA TAACAAAAAT AATAATAATG ACGATTCTTA TATCCCAAGC GCGGAAAAAA TACTAGAATT TGTAAACAG
ATCAGGGATA GTATCACAGA GGAATGGTCT CAATGTAACG TAACATGTGG TTCTGGTATA AGAGTTAGAA AACGAAAAGG
TTCAAATAAG AAAGCAGAAG ATTTGACCTT AGAAGATATT GATACTGAAA TTTGTAATAAT GGATAAATGT TCAAGTATAT
TTAATATTGT AAGCAATTCA TTAGGATTTG TAATATTATT AGTATTAGTA TTCTTTAATT AAKAAA
    
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24 JAN 2024

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