

Plasmodium chabaudi subsp. chabaudi, Strain AS

Catalog No. MRA-741

Product Description:

Plasmodium chabaudi subsp. *chabaudi* (*P. chabaudi* subsp. *chabaudi*), strain AS was captured from wild thicket rat (*Thamnomys rutilans*) AS (399BY), at La Maboké Field Station in Central African Republic in 1969. MRA-741 was produced by inoculation of BEI Resources lot 60506646 into 3 Swiss Webster ND4 mice. Infection was allowed to progress for 10 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%. Infected blood was collected by retro-orbital bleeding.

Lot: 70044009

Manufacturing Date: 21JUN2021

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis¹		
Circumsporozoite Surface Protein 1 (CSP1) gene PCR amplicon analysis	~ 900 to 1500 base pair amplicon	~ 1500 base pair amplicon
Sequencing of CSP1 gene (~ 1540 base pairs)	Consistent with <i>P. chabaudi</i>	Consistent with <i>P. chabaudi</i> (Figure 1)
Level of Parasitemia		
Pre-freeze (7 days post-infection) ²	Report results	28.3%
Post-freeze (5 days post-infection) ¹	≥ 1%	16.6%
Viability (5 days post-infection)¹	Growth in inoculated mice	Growth in inoculated mice

¹Testing completed on vial, post-freeze material

²Testing completed on bulk material prior to vialing and freezing

Figure 1: MRA-741 CSP1 Sequence

TTGTAGCATCCCTTTTATTAGTTGATTCCCTACTTCCAGGATATGGGCAAAATAAAAAATGTCCAAGCCCAAAGGAACTTAAACGAGGTATGTTACAA
 TAAGGAAACTGATAATAAATTTGATCAAATGCTTAACTCGGAAAATGAAAACTATCCAACCGAAATATAGTCAACAGAGTACTTGCCGATAGACCC
 GACGATCCACTCGATAGACCCGGTGATAAACCCGAGGATAAACCCGAGGATAAACCCGGTGATAAACCCGAGGATAAACCCGGCGACAAACCTGGGG
 ACAACCTGGTGACAAACCCGGCGACAAACCYGGCGATAAACCCGAGGATAAGCCCGGTGACAAACCCGGTGACAAACCCGAGGATAAACCTGGCGA
 CAAACCCGGCGACAAACCTGGTGACAAACCCGGTGACAAACCCGCCGATAAACCCGCCGATAAACCCGCCGATAAACCCGCTGATAAACCCGCCGAT
 AAACCCGCCGATAAACCCGACGAGAACAAGATGCGAAAAAAGAGCCTCAACATAAATGAAACAACCAGGAGGTCAAGGGGGACAAGGAGTACAAG
 GAGATCAAGGGGGACAAGGAGTACAAGGAGATCAAGGGGGACAAGGAGTACAAGGAGATCAAGGGGGACAAGGAGTACAAGGGCGATCAAGGGGGACA
 AGGAGTACAAGGGCGATCAAGGGGGACAAGGAGTACAAGGGCGATCAAGGGGGACAAGGAGTACAAGGGCGATCAAGGGGGACAAGGAGTACAAGGGCGAT
 CAAGGGGGACAAGGAGTACAAGGAGAWCAAGGGGGACAAGGRRGACAAGGGGGACAAGGAGCACAAGGRCACAAGGWWGACAAGGGGGACAAGGAG
 TACAAGGAGATCAAGGAGGACAAGGGGGACAAGGAGGACAAGGAGGACAAGGAGGACAAGGGGGACAAGGAGATCAAGGAGCACAAGG
 GGCAGATGGAAACAGAGCACCAAGTAGTACCAGCTGCACCAGGAGGAGGAGGTGGTAATAATAACAACCAGGGTGGACAGGGAAATCAACCAGGAAGA
 GGTGGCAATAATAACAATCAAGGAGGAGGTAATAACAATAACCAAGGAGGACAAGGAAATCAACCAGGAAGAGGTGGCAATAATAACAATCAAGGAG
 GAGGTAATAATAATAATCAAGGAGGAGGTAATAACAATCAAGGAGGAGGTAATAATAATAATCAAGGAGGAGGTAATAATAATAATGAAGAGGCTGTGATGCCAACTGCGGAGCACATAAAA
 GAATTCATTAATAAGATCAAAACCGAATTAACAGATGAATGGTCTCAATGTAGTGTAAACATGTGGTACTGGTATAAGAATTAGAAAACGAGCAGGTG
 TAAATAAGCAACCAGAAAATTATTCCTTAGAGGATTTGAAACTGAAGTTTGTAAAAATGGATAAATGTTCAAGTATATTTAATATT

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04 OCT 2024

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