Certificate of Analysis for MRA-268

Plasmodium berghei, Strain NK65

Catalog No. MRA-268

Product Description:

Plasmodium berghei (*P. berghei*), strain NK65 was isolated in 1964 from *Anopheles dureni millecampsi* mosquitoes collected in the River Kisanga, Democratic Republic of Congo. MRA-268 was produced by inoculation of BEI Resources lot 58006873 into three ND4 Swiss Webster mice. Infection was allowed to progress for 7 days. Infected blood was collected by retro-orbital bleeding and used to inoculate 22 ND4 Swiss Webster mice. Infection was allowed to progress until parasitemia reached > 5%. After 5 days, infected blood was collected by retro-orbital bleeding.

Lot: 70074080 **Manufacturing Date: 08MAR2025**

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TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis[1]		
Circumsporozoite Surface Protein 1 (CSP1) gene PCR amplicon analysis	~ 900 to 1100 base pair amplicon	~ 900 base pair amplicon
Sequencing of CSP1 gene (~ 1020 base pairs)	Consistent with *P. berghei*	Consistent with *P. berghei* (Figure 1)
Level of Parasitemia		
Pre-freeze (7 days post-infection)[1]	Report results	5.1%
Post-freeze (5 days post-infection)[2]	≥ 1%	2.4%
Viability (5 days post-infection)[1]	Growth in inoculated mice	Growth in inoculated mice

[1]Testing completed on bulk material prior to vialing and freezing.
[2]Testing completed on vialed, post-freeze material.

Figure 1: MRA-268 CSP1 Sequence

ATGAGGAAGTGTACCATTTTAGTTGTAGCGTCACTTTTATTAGTTAATTCTCTACTTCCAGGATATGGACAAAATAAAAGCATCCAAGCCCAAAGGA
ACTTAAACGAGCTATGTTACAATGAAGGAAATGATAATAAATTGTATCACGTGCTTAACTCTAAGAATGGAAAAATATACAATCGAAATACAGTCAA
CAGATTACTTGCCGATGCTCCCGAAGGAAAAAAAAATGAGAAAAAAAACGAAAAAATAGAGCGTAATAATAAATTGAAACAACCACCACCACCACCAA
ACCCAAATGACCCACCACCACCAAACCCAAATGACCCACCACCACCAAACCCAAATGACCCACCACCACCAAACCCAAATGACCCACCACCACCAAA
CCCAAATGACCCAGCACCACCAAACGCAAATGACCCAGCACCACCAAACGCAAATGACCCAGCACCACCAAACGCAAATGACCCAGCACCACCAAAC
GCAAATGACCCAGCACCACCAAACGCAAATGACCCAGCACCACCAAACGCAAATGACCCAGCACCACCAAACGCAAATGACCCACCACCACCAAACC
CAAATGACCCAGCACCACCACAAGGAAATAACAATCCACAACCACAGCCACGGCCGCAGCCACAACCACAGCCACAGCCACAACCACAGCCACAGCC
ACAACCACAGCCACGACCACAGCCACAACCACAGCCAGGTGGTAATAACAATAACAAAAATAATAATAATGACGATTCTTATATCCCAAGCGCGGAA
AAAATACTAGAATTTGTTAAACAGATCAGGGATAGTATCACAGAGGAATGGTCTCAATGTAACGTAACATGTGGTTCTGGTATAAGAGTTAGAAAAC
GAAAAGGTTCAAATAAGAAAGCAGAAGATTTGACCTTAGAAGATATTGATACTGAAATTTGTAAAATGGATAAATGTTCAAGTATATTTAATATTGT
AAGCAATTCATTAGGATTTGTAATATTATTAGTATTAGTATTCTTTAATTAA

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Sonia Bjorum Brower 18 MAR 2026
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