

Plasmodium berghei, Strain Pf25DR (ANKA 2.34 Pbs25-/Pbs28-)

Catalog No. MRA-976

Product Description:

Plasmodium berghei (*P. berghei*), strain Pf25DR (ANKA 2.34 Pbs25-/Pbs28-) is a stably integrated transgenic *P. berghei* in which open reading frames P25 and P28 in *P. berghei*, strain ANKA 2.34 are replaced with *P. falciparum*, strain 3D7 gene sequence Pfs25 and Toxoplasma gondii dihydrofolate reductase gene (TgDHFR TS) as the drug-selectable marker (using 0.07 mg/mL pyrimethamine in distilled water, pH 5.0). MRA-976 was produced by inoculation of BEI Resources lot 58545204 into three ND4 Swiss Webster mice. Infection was allowed to progress for 5 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%. After 3 days, infected blood was collected by retro-orbital bleeding.

Lot: 70081739

Manufacturing Date: 19MAR2026

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TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis¹		
Circumsporozoite Surface Protein 1 (CSP1) gene PCR amplicon analysis	~ 900 to 1100 base pair amplicon	~ 1100 base pair amplicon
Sequencing of CSP1 gene (~ 1020 base pairs)	Consistent with <i>P. berghei</i>	Consistent with <i>P. berghei</i>
Level of Parasitemia		
Pre-freeze (3 days post-infection) ¹	Report results	6.1%
Post-freeze (5 days post-infection) ²	≥ 1%	8.3%
Viability (5 days post-infection)¹	Growth in inoculated mice	Growth in inoculated mice

¹Testing completed on bulk material prior to vialing and freezing.

²Testing completed on vialled, post-freeze material.

Figure 1: MRA-976 CSP1 Sequence

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ATGAAGAAGTGTACCATTTTAGTTGTAGCGTCACTTTTATTAGTTAATTCTCTACTTCCAGGATATGGACAAAATAAAAAGCATCCAAGCCCAAAGGA
ACTTAAACGAGCTATGTTACAATGAAGGAAATGATAATAAATTGTATCACGTGCTTAACTCTAAGAATGGAAAAATATACAATCGAAATACAGTCAA
CAGATTACTTGCCGATGCTCCCGAAGGAAAAAAAATGAGAAAAAAACGAAAAAATAGAGCGTAATAATAAATTGAAACAACCACCACCACCACCA
AACCCTAATGACCCACCACCACCAACCCAAATGACCCACCACCACCAACCCAAATGACCCASCACCACCAACCCAAATGACCCACCACCACCA
ACSCAAATGACCCACCACCACCAACSCAAATGACCCASCACCACCACCAACGCAATGACCCAGCACCACCAACGCAATGACCCASCACCACCA
CSCAAATGACCCASCACCACCAACSCAAATGACCCACCACCACCAACCCAAATGACCCAGCACCACCAACGCAATGACCCACCACCACCAAC
CCAAATGACCCAGCACCACCACCAAGGAAATAACAATCCACAACCACAGCCACGGCCGAGCCACAACCACAGCCACAGCCACAACCACAGCCACAGC
CACAACCACAGCCACGACCACAGCCACAACCACAGCCAGGTGGTAATAACAATAACAAAAATAATAATGACGATCTTTATATCCCAAGCGCGGA
AAAAATACTAGAATTTGTTAAACAGATCAGGGATAGTATCACAGAGGAATGGTCTCAATGTAACGTAACATGTGGTTCTGGTATAAGAGTTAGAAAA
CGAAAAGGTTCAAATAAGAAAGCAGAAGATTTGACCTTAGAAGATATTGATACTGAAATTTGTAAATGGATAAATGTCAAGTATATTTAATATTG
TAAGCAATTCATTAGGATTTGTAATATTATTAGTATTAGTATTCTTTAATTAA

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Certificate of Analysis for MRA-976

/Sonia Bjorum Brower/

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07 OCT 2026

Technical Manager or designee, ATCC Federal Solutions

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