

Plasmodium berghei, Strain Beryellow.i

Catalog No. MRA-1260

Product Description:

Plasmodium berghei (*P. berghei*), strain Beryellow.i is a pyrimethamine-sensitive and yellow fluorescent protein (YFP) expressing recombinant strain, which was generated by integration of *P. berghei* adaptable transfection vector pBAT-Y6 into *P. berghei*, strain ANKA C115cy1 (BEI Resources Catalog No. MRA-871). MRA-1260 was produced by inoculation of deposited material into BALB/c mice. Infection was allowed to progress for 6 days. Infected blood was collected by retro-orbital bleeding and used to inoculate BALB/c mice. Infection was allowed to progress until parasitemia reached > 5%. After 6 days, infected blood was collected by retro-orbital bleeding.

Lot: 63410919

Manufacturing Date: 14APR2015

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TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis¹ Circumsporozoite Surface Protein 1 (CSP1) gene PCR amplicon analysis Sequencing of CSP1 gene (~ 1020 base pairs)	~ 900 to 1100 base pair amplicon ≥ 99% sequence identity to <i>P. berghei</i> , strain ANKA (GenBank: LK023119.2)	~ 1000 base pair amplicon 99.9% sequence identity to <i>P. berghei</i> , strain ANKA (GenBank: LK023119.2) (Figure 1)
Level of Parasitemia Pre-freeze (6 days post-infection) ² Post-freeze (4 days post-infection) ¹	Report results ≥ 1%	6.2% 5.6%
Viability (4 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-1260 CSP1 Sequence

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TTTAATTAAAGAATACTAATACTAATAATATTACAAATCCTAATGAATTGCTTACAATATAAATATACTTGAACATTTATCCATTTTACAAATTC
AGTATCAATATCTTCTAAGGTCAAATCTTCTGCTTTCTTATTTGAACCTTTTCGTTTTCTAACTCTTATACCAGAACCACATGTTACGTTACATTGA
GACCATTCCTCTGTGATACTATCCCTGATCTGTTTAAACAATTCAGTATTTTTTCCGCGCTTGGGATATAAGAATCGTCATTATTATTATTTTTGT
TATTGTTATTACCACCTGGCTGTGGTTGTGGCTGTGGTCGTGGCTGTGGTTGTGGCTGTGGCTGTGGTTGTGGCTGTGGCTGTGGTTGTGGCTGCGG
CCGTGGCTGTGGTTGTGGATTGTTATTTCCCTTGTGGTGGTGTGGTGCATTTGGGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGCAT
TTTGGGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGGTGCAT
TTGCGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGGTGCAT
TGGGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGGTGCATTTGCGTTTGGTGGTGGTGGTGCAT
TTTTYGTTTTTTTTCTCATTTTTTTTCCCTTCGGGAGCATCGGCAAGTAATCTGTTGACTGTATTTGATTGTATATTTTCCATTTCTAGAGTTAA
GCACGTGATACAATTTATTATCATTTTCCCTTATTGTAACATAGCTCGTTTAAAGTTCCCTTTGGGCTTGGATGCTTTTATTTTGTCCATATCCTGGAAG
TAGAGAATTAATAATAAAAGTGACGCTACAATAAATGGTACACTTCTTCAAAA
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