

Plasmodium berghei, Strain Bergreen.i

Catalog No. MRA-1259

Product Description:

Plasmodium berghei (*P. berghei*), strain Bergreen.i is a pyrimethamine-sensitive and green fluorescent protein (GFP) expressing recombinant strain, which was generated by integration of the *P. berghei* adaptable transfection vector pBAT-G6 into *P. berghei*, strain ANKA Cl15cy1 (BEI Resources Catalog No. MRA-871). MRA-1259 was produced by inoculation of the deposited material into BALB/c mice. Infection was allowed to progress for 4 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 4 days, infected blood was collected by retro-orbital bleeding.

Lot: 63410918

Manufacturing Date: 21APR2015

BEI Resources is committed to ensuring digital accessibility for people with disabilities. This Certificate of Analysis contains complex tables and may not be fully accessible. Please let us know if you encounter accessibility barriers and a fully accessible document will be provided: E-mail: Contact@BEIResources.org. We try to respond to feedback within 24 hours.

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis¹ Circumsporozoite Surface Protein 1 (CSP1) gene PCR amplicon analysis Sequencing of CSP1 gene (~ 750 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 (4 days post-infection) ² Post-freeze (4 days post-infection) ¹	Report results ≥ 1%	5.8% 5.9%
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-1259 CSP1 Sequence

```

TTTAATTAAAAGAATACTAATACTAATAATATTACAAATCCTAATGAATTGCTTACAATATTAAATATACTTGAACATTTATCCATTTTACAAATTT
CAGTATCAATATCTTCTAAGGTCAAATCTTCTGCTTCTTATTTGAACCTTTTCGTTTCTAACTCTTATACCAGAACACATGTTACGTTACATTG
AGACCATTCCTCTGTGATACTATCCCTGATCTGTTTAACAAATCTAGTATTTTTCCGCGCTTGGGATATAAGAATCGTCATTATTATTATTTTGT
TTATTGTTATTACCACCTGGCTGTGGTGTGGCTGTGGTGTGGCTGTGGTGTGGCTGTGGTGTGGCTGTGGTGTGGCTGTGGTGTGGCTGTGGTGTGG
GCCGTGGCTGTGGTGTGGATTGTTATTTCTTGTGGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG
ATTTGGGTTTGGTGGTGGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG
TTTGCGTTTGGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG
TTGGGTTTGGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG
AATCTGTTGACTGTATTTCGATTGTATTTTTCCATTCTTAGAGTTAAGCACGTGATACAATTTATTATCATTTTCTTCATTGTAAACATAGCTCGT
TTAAGTTCCTTTGGGCTTGGATGCTTTTATTTTGTCCATATCCTGGAAGTAGAGAATTAATAATAAAAGTGACGCTACAATAAAATGGTACACTT
CTTCAAAA

```

Certificate of Analysis for MRA-1259/Sonia Bjorum Brower/Sonia Bjorum Brower

15 FEB 2024

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

