ATCC

Product Sheet

Plasmodium berghei (ATCC® 50176™)

Please read this FIRST

Biosafety Level
1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Plasmodium berghei* (ATCC® 50176™)

American Type Culture Collection
PO Box 1549
Manassas, VA 20108 USA
www.atcc.org

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: Tech@atcc.org

Or contact your local distributor

Description

Strain Designation: NK65B
Deposited Name: *Plasmodium berghei* Vincke and Lips
Depositor: NE Alger
Isolation:
derived from existing strain
Illinois,

Propagation

Growth Conditions
Duration: in vivo, mouse
Protocol: ATCCNO: 50173 SPEC: This strain is distributed as a frozen stabilate. See general instructions for thawing and storage of frozen material before proceeding. Upon arrival remove the frozen ampoule from the dry ice and transfer directly to a 35C water bath. When completely thawed, aseptically remove the material with a syringe and inject the entire thawed contents of the ampule intraperitoneally into a 6- to 9-week-old mouse. The strain should be monitored, especially after infecting with thawed material. To infect additional mice, draw a drop of tail blood into a 1.0 ml syringe containing 0.5 ml of sterile buffered anticoagulant, mix, and inoculate 0.1-0.2 ml of the suspension intraperitoneally/rat.

Instructions for Complete Medium
in-vivo cultivation in mouse

Cryopreservation

CRYOPRESERVATION:
Only young cells (rings) can be frozen in glycerolyte medium* because their membranes are more robust.
1. To harvest parasites, inject host with ketamine (0.10.2 ml).
2. Open chest cavity to expose heart and exsanguinate via cardiac puncture using Yaeger's anticoagulant** (see below), 1 volume anticoagulant to 4 volumes
blood. Glass
distilled
HGla
3. Centrifuge blood for 5 mins. at 1800 rpm in 50 ml centrifuge tube.
4. Aspirate supernatant using sterile Pasteur pipet.
5. Resuspend pellet gently in remaining supernatant.
6. Slowly add 5 volumes of glycerolyte medium to 3 volumes pellet dropwise via a syringe as follows:
A. Add the first volume of glycerolyte and allow the tube to stand for 5 mins. at room temperature.
B. Add the remaining 4 volumes of glycerolyte and gently agitate.
7. Aliquot mixture into Nunc screw-capped freezing vials and place in a Nalgene 1°C cooling apparatus. Place the apparatus at -80°C overnight and then plunge ampules into liquid nitrogen. (The cooling rate in this apparatus is approximately -1°C/min.).
8. Plunge vials into liquid nitrogen (-196ºC) the next day and store in liquid nitrogen or liquid nitrogen vapor.

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media

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may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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