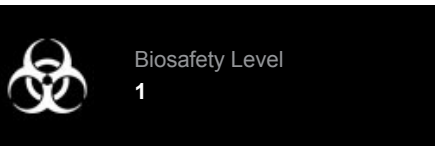
ATCC

Product Sheet

Plasmodium berghei (ATCC® 30090™)

Please read this FIRST



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® 30090™)

Description

Strain Designation: NK65
Deposited Name: *Plasmodium berghei berghei* Vincke and Lips
Depositor: M Yoeli
Isolation:
mosquito, Anopheles dureni, Forest Gallery of Kisanga, Katanga, 1965

Propagation

Growth Conditions
Duration: in vivo, hamster
Protocol: ATCCNO: 30090 SPEC: Serial passage in young hamsters (for best results) or laboratory mice. Inject 0.2-0.5 ml of an ampule intraperitoneally into 2 or 3 young hamsters (6-8 weeks old). Gametocytes develop best in hamsters. Inject 0.2-0.5 ml from the heart for serial passage.

Instructions for Complete Medium
Media: *in-vivo* cultivation in hamster

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.

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Disclaimers

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Or contact your local distributor

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Biosafety Level
1

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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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