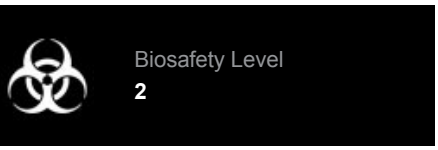
ATCC

Product Sheet

Plasmodium vivax (ATCC® 30073™)

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 vivax* (ATCC® 30073™)

Description

Strain Designation: NICA
Deposited Name: *Plasmodium vivax* (Grassi and Feletti) Labbe
Depositor: National Institutes of Health
Isolation:
owl monkey, Nicaragua

Propagation

Growth Conditions
Duration: in vivo, Aotus trivirgatus
Protocol: ATCCNO: 30037 SPEC: This strain is distributed as a frozen stabilate. See general instructions for thawing and storage of frozen material before proceeding. As soon as the strain arrives, remove the frozen ampule from the dry ice and transfer it directly to a 35C water bath. When it is completely thawed, aseptically remove the material with a syringe and inject the entire contents of the vial into an Aotus trivirgatus. This parasite can be maintained by serial passage of parasitized blood (by intravenous inoculation) into monkeys (Aotus trivirgatus).

Instructions for Complete Medium
Media: *in-vivo* cultivation, *Aotus trivirgatus* monkey

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 (0.51.0ml depending on host size / weight).
2. Exsanguinate via the femoral vein using a sterile syringe and Yaeger's anticoagulant**, 1 volume anticoagulant to 4 volumes blood. Note: Unless there is an exchange transfusion, no more than 10% of estimated total blood volume should be collected over a 2 wk. period.
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 1C 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: 2

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 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.

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Email: Tech@atcc.org

Or contact your local distributor

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Disclaimers

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

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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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