



Product Sheet

Plasmodium falciparum (ATCC® 30950™)

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 falciparum* (ATCC® 30950™)

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: Honduras-1/CDC
Deposited Name: *Plasmodium falciparum* Welch
Depositor: W Trager
Isolation:
human, Cholutec, Honduras, 1980

Propagation

Growth Conditions

Temperature: 37.0°C

Growth condition: in vitro culture in human erythrocytes. Consult product sheet for protocol.

Medium

ATCC® Medium 2196: Malaria medium, complete

Culture Maintenance

Changing of the culture medium every 24 hours is required for a malaria-infected erythrocyte culture. Add washed, uninfected red blood cells (RBCs) to 1-3% haematocrit, and maintain parasitemia at 2-3% for continuous culture.

1. Remove flask with infected culture from 37°C incubator and place onto flask warmer in biological safety hood.
2. Carefully aspirate the medium with a sterile unplugged Pasteur pipet attached to a vacuum line. Remove as much fluid as possible without taking the cells.
3. Aseptically add sterile warm (37°C) completed medium to the flask (~8ml to a T-25, ~25ml to a T-75, etc.). Mix and smear as required to determine parasitemia (see below).
4. Add washed RBCs as necessary to obtain desired haematocrit and parasitemia.
5. Gently mix and aerate culture with gas mixture of 5% CO₂, 5% O₂ and 90% N₂ using a sterile, cotton plugged Pasteur pipet. Quickly tighten cap of the flask and place in 37°C incubator until the next medium change.

Cryopreservation

CRYOPRESERVATION:

Only young cells (rings) can be frozen in glycerolyte medium* because their membranes are more robust.

1. Centrifuge ring-stage culture for 5 mins. at 1000 x g in 50 ml centrifuge tube.
2. Aspirate supernatant using sterile Pasteur pipet.
3. Resuspend pellet gently in remaining supernatant.
4. 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.
5. 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.).
6. Plunge vials into liquid nitrogen (-196°C) 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



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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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