



# *Plasmodium falciparum* Welch

30193™

Product Sheet

## Description

**Strain designation:** Honduras

**Deposited As:** *Plasmodium falciparum* Welch

**Type strain:** No

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## Storage Conditions

**Product format:** Frozen

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## Intended Use

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

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## BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always

used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

### Host:

in vivo, *Aotus trivirgatus*

**Instructions for complete medium: Media:** *in-vivo* cultivation, *Aotus trivirgatus* monkey

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## Handling Procedures

**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 (-196°C) the next day and store in liquid nitrogen or liquid nitrogen vapor.

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Plasmodium falciparum* Welch (ATCC 30193)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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