




Product Sheet

## *Anaplasma marginale*


### Theiler (ATCC® VR-1436™)

Please read this **FIRST**



Storage Temp.  
**Liquid nitrogen**

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Biosafety Level  
**2**

#### 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: *Anaplasma marginale* Theiler (ATCC® VR-1436™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

#### Description

**Strain:** South Idaho, USA (S64-Id2AM)

**Classification:** Rickettsiae

**Original Source:**

Whole blood from a naturally infected 13 year old Hereford cow from south-central Idaho herd

**Depositor:** W Goff, D Stiller

#### Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

#### Propagation

**Propagation Host:**

cattle (*Bos taurus*)

*Bos taurus*; *Bos indicus*; *Bison bison*; *Cervus elaphus*; other wild ungulates

**Effect on Host:**

Decreased hematocrit resulting in mild to severe anemia and if immunocompromised, death

**Growth Conditions**

**Incubation:** Using 10(8) infected erythrocytes, 20-26 days needle challenge (IV); 33-38 days tick transmitted

#### Comments

Infected erythrocytes contain inclusion bodies which each contain from 4-8 initial bodies. Organism remains viable in blood for 24 hours at 4°C. Antibodies that develop after infection cross-react extensively with *Anaplasma ovis* in all serologic assays evaluated to date.

#### References

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

#### Key Abbreviations

DMSO, dimethyl sulfoxide

USDA, United States Department of Agriculture

#### 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.

#### Disclaimers

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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](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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