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

**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™)

**Descriptions**
- **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 Stillier

**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 10⁸ infected erythrocytes, 20-26 days needle challenge (IV); 33-38 days tick transmitted

**Comments**
Infected erythrocytes contain incuusion 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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Additional information on this culture is available on the ATCC web site at www.atcc.org.

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