

***Babesia duncani*, WA1 (in vitro)**

Catalog No. NR-50440

Product Description: *Babesia duncani* (*B. duncani*), WA1 was isolated from human blood from the first reported case of babesiosis acquired in Washington, USA, and adapted to continuous *in vitro* culture in human erythrocytes.

Lot¹: 70004225

Manufacturing Date: 28APR2017

TEST	SPECIFICATIONS	RESULTS
Cellular Morphology²	Report results	Single, double and tetrad forms
Genotyping³ Sequencing of 18S ribosomal RNA (rRNA) gene (~ 680 base pairs)	Consistent with <i>B. duncani</i>	Consistent with <i>B. duncani</i>
Functional Activity by PCR Amplification^{3,4} 18S rRNA gene	~ 930 base pair amplicon	~ 930 base pair amplicon
Level of Parasitemia^{3,5}	Report results	13%
Viability^{2,6}	Growth	Growth
Mycoplasma Contamination³ DNA Detection by PCR	None detected	None detected

¹NR-50440 was produced by cultivation of the deposited material in human erythrocytes with *Babesia* Growth Medium (HL-1™ Chemically Defined, Serum-Free Medium (Lonza 77201), adjusted to contain 20% Human Serum Type A Positive, 1% HB 101® supplement (Irvine Scientific® T151), 2 mM L-glutamine, 200 µM hypoxanthine, 32 µM thymidine, 100 IU/mL penicillin, 100 µg/mL streptomycin and 0.25 µg/mL amphotericin B and 100 µg/mL gentamicin). After a series of passages, the culture was propagated in human erythrocytes with *Babesia* Growth Medium for 1 day at 37°C in a humidified atmosphere of 93% N₂, 5% CO₂, 2% O₂ until the first peak of parasitemia was reached.

²Testing completed on vial, post-freeze material.

³Testing completed on bulk material prior to vialing and freezing.

⁴Primer sequences and conditions for PCR are available upon request.

⁵Parasitemia was determined after 1 day of infection by microscopic counts of Giemsa-stained blood smears.

⁶Viability of the material following cryopreservation was determined by cultivation in human erythrocytes with *Babesia* Growth Medium at 37°C in a humidified atmosphere of 93% N₂, 5% CO₂, 2% O₂ and examination of parasitemia every day for 4 days post-infection (19% parasitemia).

Date: 29 JAN 2018

Signature: 

BEI Authentication or designee

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection. You are authorized to use this product for research use only. It is not intended for human use.

