

Tick Cell Line ISE6 Derived from *Ixodes scapularis* Embryos

Catalog No. NR-12234

Product Description:

The cell line, ISE6, was derived using whole embryos from black-legged ticks (*Ixodes scapularis*). The primary culture was obtained from embryos at an age of 25 days post-onset of oviposition. Cell line ISE6 was established by subculturing the primary culture using techniques described in the literature.

Lot: 70060063

Manufacturing Date: 24AUG2023

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent and floating clumps of viable cells
Morphology	Embryonic, mixed	Embryonic, mixed
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	<i>Ixodes scapularis</i> origin No evidence of another species	<i>Ixodes scapularis</i> origin No evidence of another species
Total Cell Count	> 10 ⁶ cells per vial	1.2 × 10 ⁷ cells/vial
Post-Freeze Viability	≥ 19%	64.3%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ¹ Trypticase Soy broth, 37°C and 26°C, aerobic Sabouraud broth, 37°C and 26°C, aerobic Sheep blood agar, 37°C, aerobic Sheep blood agar, 37°C, anaerobic Thioglycollate broth, 37°C, anaerobic DMEM with 10% FBS, 37°C and 5% CO ₂	No growth No growth No growth No growth No growth No growth No growth	No growth No growth No growth No growth No growth No growth No growth
Mycoplasma Contamination Hoechst DNA stain Agar and broth culture (14-day incubation at 37°C) DNA detection by PCR of extracted Test Article nucleic acid	None detected None detected None detected	None detected None detected None detected

¹Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

/Sonia Bjorum Brower/

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Technical Manager, ATCC Federal Solutions

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