

Ferret Tracheal Epithelial Cells CD16.A10 Knockout, Immortalized Cell Line [FiTEC.FrtCD16.A10.KO(C3)]

Catalog No. NR-58936

Product Description:

NR-58936 is an immortalized cell line, tracheal epithelial cells (TEC) from *Mustela putorius furo* (ferret) [FiTEC.FrtCD16.A10.KO(C3)] modified to express an inverted CD16 gene, resulting in no expression of CD16 surface protein under CMV promoter. This cell line was developed to act as a negative control for verification of monoclonal antibodies.

Lot: 70058564

Manufacturing Date: 06MAR2023

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology¹	Epithelial-like	Epithelial-like
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Ferret origin No evidence of another species	Ferret origin No evidence of another species
Total Cell Count	> 1.0 × 10 ⁶ cells/vial	7.4 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	86%
Sterility (21-day incubation) Harpo's HTYE broth, 37°C and 26°C, aerobic ² 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

¹FiTEC.FrtCD16.A10.KO(C3) cells are derived from epithelial cells but may have a fibroblast-like appearance.

²Atlas, Ronald M. *Handbook of Microbiological Media*. 3rd ed. Ed. Lawrence C. Parks. Boca Raton: CRC Press, 2004, p. 798.

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