

Humanized Canine Kidney (hCK) Serum Free Suspension (Sfsus) MDCK Pre-Master Cell Bank (non-GMP)

Catalog No. NR-60223

Product Description:

NR-60223 is an engineered Madin-Darby canine kidney (MDCK) humanized cell line (hCK) that is more suitable for human influenza virus isolation and propagation. It was developed by Takada et al. by altering the expression levels of α-2,6-sialoglycans and α-2,3-sialoglycans of the host cell. Cells were grown in SFM4BHK21 medium (Hyclone Cytiva™ Cat. No. RR14443.01) supplemented with 1% L-glutamine (Gibco™ Cat. No. 25030081) at 37°C and 5% CO₂.

Note: This is a suspension cell line, do not discard floating cells.

Lot: 70074967

Manufacturing Date: 18APR2025

TEST	SPECIFICATIONS	RESULTS
Growth Properties	Suspension	Suspension
Morphology	Rounded	Rounded
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Canine origin No evidence of another species	Canine origin No evidence of another species
Total Cell Count	> 1.0 × 10 ⁶ cells/vial	9.5 × 10 ⁶ cells/vial
Post-Freeze Viability	≥ 50%	84.4%
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.

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14 OCT 2025

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