

**Madin-Darby Canine Kidney-SIAT1 Cell Line**

**Catalog No. NR-60144**

**Product Description:**

Madin-Darby canine kidney (MDCK) cells were stably transfected with cDNA encoding the human  $\alpha$ -2,6-sialyltransferase (SIAT1) enzyme in a bicistronic expression vector to generate MDCK-SIAT1 cells. Cells were grown in Dulbecco's Modified Eagle's Medium (Gibco™ 21969-035) containing 4 mM L-glutamine, 4500 mg/L-glucose, 1 mM sodium pyruvate and 1500 mg/mL sodium bicarbonate, supplemented with 10% fetal bovine serum (ATCC® 30-2020™) and 1 mg/mL Geneticin (G418) (Gibco™ 10131-027). The completed media should be protected from light. The cells are grown at 37°C and 5% CO<sub>2</sub>. Cells may be refed with fresh media every 2 to 3 days between passages.

**Lot: 70075435**

**Manufacturing Date: 23APR2025**

TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>Morphology</b>	Epithelial-like	Epithelial-like
<b>Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene</b>	Canine origin No evidence of another species	Canine origin No evidence of another species
<b>Total Cell Count</b>	> 1.0 × 10 <sup>6</sup> cells/vial	6.5 × 10 <sup>6</sup> cells/vial
<b>Post-Freeze Viability</b>	≥ 50%	92.4%
<b>Sterility (21-day incubation)</b> Harpo's HTYE broth, 37°C and 26°C, aerobic <sup>1</sup> 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 <sub>2</sub>	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
<b>Mycoplasma Contamination</b> 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

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

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22 JUL 2025

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