

HepG2 Cell Line Producing Hepatitis B Virus, Genotype A1

Catalog No. NR-56527

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Product Description:

HepG2 cell line producing hepatitis B virus (HBV), genotype A1 (HepG2-GtA1) is a stable cell line designed by transfecting plasmids with an insert of replicon-competent 1.3x length HBV, genotype A1 genome and a hygromycin marker into HepG2 cells capable of HBV replication. NR-56527 produces virions capable of infecting HBV-sensitive cells.

Lot: 70053977

Manufacturing Date: 27OCT2022

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TEST	SPECIFICATIONS	RESULTS
Growth Properties	Adherent	Adherent
Morphology	Epithelial	Epithelial
Sequencing of HBV Specific Coding Regions (~ 910 nucleotides)	≥ 98% identity with HBV genotype A1 (GenBank: KU736919.1)	99.8% identity with HBV genotype A1 (GenBank: KU736919.1)
Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene	Human origin No evidence of another species	Human origin No evidence of another species
Total Cell Count	> 1.0 × 10 ⁶ cells per vial	6.45 × 10 ⁶ cells per vial
Post-Freeze Viability	≥ 50%	75.2%
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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15 MAR 2023

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