

# HepG2 Cell Line Producing Hepatitis B Virus, Genotype H

## Catalog No. NR-56533

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## Product Description:

HepG2 cell line producing hepatitis B virus (HBV), genotype H (HepG2-GtH) is a stable cell line designed by transfecting plasmids with an insert of replicon-competent 1.3x length HBV, genotype H genome and a hygromycin marker into HepG2 cells capable of HBV replication. NR-56533 produces virions capable of infecting HBV-sensitive cells.

**Lot: 70056624**

**Manufacturing Date: 08FEB2023**

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TEST	SPECIFICATIONS	RESULTS
<b>Growth Properties</b>	Adherent	Adherent
<b>Morphology</b>	Epithelial	Epithelial
<b>Sequencing of HBV Specific Coding Regions</b> (~ 920 nucleotides)	≥ 98% identity with HBV genotype H (GenBank: AY090460)	100% identity with HBV genotype H (GenBank: AY090460)
<b>Multiplex PCR Amplification of Cytochrome C Oxidase I (COI) Gene</b>	Human origin No evidence of another species	Human origin No evidence of another species
<b>Total Cell Count</b>	> 1.0 × 10 <sup>6</sup> cells per vial	3.77 × 10 <sup>6</sup> cells per vial
<b>Post-Freeze Viability</b>	≥ 50%	88.8%
<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 No growth No growth
<b>Mycoplasma Contamination</b> 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

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

/Sonia Bjorum Brower/

Sonia Bjorum Brower

Technical Manager, ATCC Federal Solutions

13 APR 2023

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