

**HepG2 Cell Line Producing Hepatitis B Virus, Genotype E**

**Catalog No. NR-56531**

This reagent is the tangible property of the U.S. Government.

**Product Description:**

HepG2 cell line producing hepatitis B virus (HBV), genotype E (HepG2-GtE) is a stable cell line designed by transfecting plasmids with an insert of replicon-competent 1.3x length HBV, genotype E genome and a hygromycin marker into HepG2 cells capable of HBV replication. NR-56531 produces virions capable of infecting HBV-sensitive cells.

**Lot: 70056620**

**Manufacturing Date: 14NOV2022**

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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> (~ 910 nucleotides)	≥ 98% identity with HBV genotype E (GenBank: KU736895)	99.8% identity with HBV genotype E (GenBank: KU736895)
<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	7.7 × 10 <sup>6</sup> cells per vial
<b>Post-Freeze Viability</b>	≥ 50%	78.6%
<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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