

Hep-G2

Assay Ready Cells

BATCH SPECIFICATIONS

Certificate of Analysis Lot-N°: 92-191108JP01

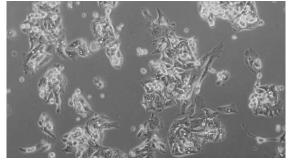
BATCH SPECIFICATIONS			
Cell Designation:	Hep-G2 cell type	Source:	ID0080
Cat-N°:	RE561	Lot-N°:	92-191108JP01
Packaging Unit:	10 million cells / vial	Assay Medium:	С
Passage:	14	Storage:	below -150°C (e.g. liN ₂)
Approval Date:	18.11.2019	Approved by:	-
Expiry Date:	08.11.2021	Jusan Ci	ura

Susan Ciura (Head of Quality Control)

QUALITY CONTROL

	Batch Results	Specification Limits
Cell Count	1.3E+07	\geq 90 % of nominal cell count
Homogeneity (cell count)	96 %	≥ 90 %
Viability (after thawing)	95 %	\geq 90 %
Aggregation	1.8	≤ 2.0
Debris Ratio	0.4	≤ 1.0
Proliferative Capacity	100 %	≥ 70 %
Sterility (bacteria, yeast, fungi)	passed	sterile after 4 days
Sterility (mycoplasma)	passed	negative by PCR
Morphology	passed	unaltered to reference
EC50 Sertraline	1.40	0.9 -2µM
EC50 Amitriptyline	5.50	3.8 – 7µM

MORPHOLOGY:

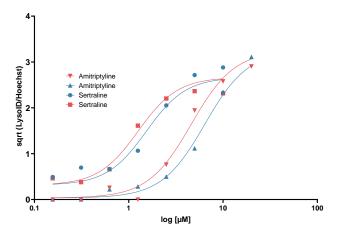


Morphology of Hep-G2 assay ready cells

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DOUBLE DETERMINATION OF SERTRALINE AND AMITRIPTYLINE

METHODS

Cell Viability Parameters:	Viability parameters (viable cell count after thawing, grade of aggregation, percentage of debris) were determined from a pooled sample (SOP-2015-02). Briefly, assay ready cells were thawed in a water bath. 50 μ l of each sample were pooled, diluted 1:1000 in CASY Ton buffer and measured (3 replica) in a CASY TT automatic cell counter. Vial to vial variation was determined in a plate-based viability assay. Equal aliquots of each cell samples were dispensed into a 96 well-plate. A cellular dye was added to the well to obtain fluorescent signal which is proportional to the viable cell count.
Proliferative Capacity:	1,0E+04 cells from the assay ready cell samples and from a reference of a continuously passaged culture were seed in a 96-well plate (8 replica each). After 48 hours of cultivation the proliferation of the cells was determined by addition of a metabolic cell dye (Resazurin). The proliferative capacity of the assay ready cells is calculated in percent of the exponentially growing reference. (SOP-2017-03).
Sterility Testing:	Assay ready cells were seed in two specific bacteria growth brothes (Tryptic Soy Broth for aerob and Thioglycollate broth for anaerob conditions) and cultivated over a course of 14 days. After day 1, 4, 7 and 14 the cultures were analyzed microscopically for cell growth, cell morphology, and incidences of contamination (bacteria, yeast, or fungi). For mycoplasma testing from a three days old, sub-confluent culture 500 μ l of the supernatant was taken and analyzed by PCR using a Mycoplasma detection kit (Minerva). Assay was performed according to the manufacturer protocol (SOP-2015-06).
Functional Testing:	Assay Ready Cells were thawed, washed once in 8 ml assay medium and seeded into a 96-well plate at 20.000 cell/well. Serial dilutions of test substances Sertraline and Amitriptyline were added to the cells followed by 48h of incubation at 37°C and 5% CO ₂ . After the incubation each well was washed once with PBS followed by staining with LysoID Red Kit (Enzo Life Sciences, Inc.). After 30 min, the fluorescence of LysoRed ($540nm_{Ex}/680nm_{Em}$) and Hoechst 33342 ($340nm_{Ex}/480nm_{Em}$) was measured with a multiplate reader.

LIMITED USE

The product is sold under the terms of a Limited Use Label License attached to the product. By breaking the seal of the product package, the user explicitly agrees to the license terms. Assay Ready Cells are for immediate assay use only. The user shall not propagate, passage, or refreeze the cells.