



# PRODUCTS & SERVICES

## Hepa RG Human Hepatic Cell Line Specifications

### References: HPR201\*

HepaRG cells have the unique properties of maintaining significant levels of hepatocyte functions, of being inducible and supporting the complete replicative cycle of HBV.

*Gripon P. et al. Proc. Natl. Acad. Sci. 99, 15655-15660, 2002*

*Parent R. et al. Gastroenterology, 126, 1147-1156, 2004*  
*Abou Jaoudé G. et al., Journal of Virology, 79-16, 10460-10466, 2005*

*Troadec M.B et al. Genomics, 2005*

*Aninat C. et al. DMD, 34, 75-83, 2006*

*Corlu A. et al. FEBS Letters, 580, 3361-3367, 2006*

*Le Vee M. et al. European Journal of Pharmaceutical Sciences, 28, 109-117, 2006*

*Engelke M. et al. Hepatology, 43-4, 750-760, 2006*



Cells are coculture of hepatocyte-like cells and biliary-like epithelial cells and are available in monolayers, ready to use.

### 1. Biological material

<b>Origin</b>	Liver tumor of a patient suffering from hepatocarcinoma and hepatitis C infection
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### 2. Controls of cells

#### 2.1. Safety data

Absence of hepatitis B, hepatitis C and HIV1 viruses checked by PCR on the cell suspension



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## 2.2. CYP genotyping data

Genotyping is performed by Real Time PCR (TaqMan Technology), in collaboration with N.PICARD at limoges hospital.

	SNPs description	Genotype Results
<b>CYP2D6</b>	*2 (2850C>T)	*2/wt
	*3 (2549delA)	wt/wt
	*4 (1846G>A)	wt/wt
	*7 (2935A>C)	wt/wt
	*10 (100C>T)	wt/wt
<b>CYP3A4</b>	*1B (392G>A)	wt/wt

SNPs: Single Nucleotide Polymorphisms  
wt: wild-type

### 2.2.1. Functional parameters

Controls	Methods	Expected Results
Cell morphology	Microscopic morphology	100% confluency 30-50% hepatocyte-like
Enzymatic activity	Phenacetin deethylase	≥ 0.2 nmol/hr/mg protein
	Testosterone hydroxylase	≥ 10 nmol/hr/mg protein

## 2.3. Sterility controls

Controls	Methods	Expected Results
Mycoplasma	Biochemical test	Negative
Bacteria, yeast and fungi	Microscopic observation	Absence

## 2.4. Packaging

In 96 wellplate, reference HPR201-MW96, 24 wellplate, reference HPR201-MW24, 12.5cm<sup>2</sup> flask, reference HPR201-FL12, 25cm<sup>2</sup> flask, reference HPR201-FL25

## 2.5. Delivery

At +15/+25 °C

## 2.6. Use

Up to 4 weeks after the receipt