



Hepatic Product Catalog 2017



For Ordering Information, Customer Service, or Technical Support,
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Please visit our website for additional information.
www.phoenixsongsbio.com

Hepatic Model Product Line

Hepatic Stem Cell/Progenitor Media

Catalog #	Description	Unit Size	Unit Cost
11001-250	Kubota's StemCell Growth Media Complete serum-free media for growth of stem cells from endodermal lineage, including hepatic stem cells, biliary tree stem cells etc. and for FL-HCC tumor spheroids. Includes basal medium with serum-free supplement containing glutamine and all necessary growth factors.	250ml	\$150.00
11002-250	Kubota's Hepatoblast Growth Media Kubota's media modified for growth of hepatoblasts. Includes basal medium with serum-free supplement containing glutamine and all necessary growth factors.	250ml	\$200.00
11003-250	Hepatic Differentiation Media Kubota's media modified for differentiation of human stem cells into hepatocytes. Includes basal medium with serum-free supplement containing glutamine and all necessary differentiation factors.	250ml	\$250.00
11005-050	StemCell Freezing Media For cryopreservation of Hepatic and Biliary Tree Stem Cells in serum-free conditions with >90% recovery when thawed	50ml	\$90.00
11006-500	Wash Buffer	500ml	\$40.00

Liver Biomatrix Coated Plates

Biomatrix is isolated from decellularized livers maintaining the matrix scaffold which is then cryogenically reduced to micron sized particles in suspension and coated onto plates creating a pseudo-3D layer of biomatrix particles

Catalog #	Description	Unit Size	Unit Cost
12001-006	Biomatrix Coated 6-well Plates (5 plates/box)	5	\$225
12001-024	Biomatrix Coated 24-well Plates (5 plates/box)	5	\$215
12001-048	Biomatrix Coated 48-well Plates (5 plates/box)	5	\$215
12001-096	Biomatrix Coated 96-well Plates clear (5 plates/box)	5	\$200
12002-096	Biomatrix Coated 96-well Plates black/clear (5 plates/box)	5	\$200
12003-096	Biomatrix Coated 96-well Plates white/clear (5 plates/box)	5	\$200
12004-100	Biomatrix Coated 100mm Dishes (10 dishes/sleeve)	10	\$450
12004-060	Biomatrix Coated 60mm Dishes (10 dishes/sleeve)	10	\$325
12005-012	Biomatrix Suspension	1	\$90

Human Hepatic Cells

Catalog #	Description	Unit Size	Unit Cost
Neonatal Hepatocytes			
	Diploid hepatocytes isolated from human neonatal livers donated through the Federal Organ Procurement Organization. Greater than 90% viability upon thawing in CRM050. Will last in co-culture greater than 30 days.		
13001-001	Donor Lot NL-1001	4M cells	\$850.00
Hepatoblasts			
	Hepatoblasts isolated from human livers donated through the Federal Organ Procurement Organization.		
13002-010	Donor Lot FL-1010	4M cells	\$700.00
13002-013	Donor Lot FL-1013	4M cells	\$700.00
13002-014	Donor Lot FL-1014	4M cells	\$700.00
13002-015	Donor Lot FL-1015	4M cells	\$700.00
Hepatic Stem Cells			
	Coming Soon		
14001-001			
Biliary Tree Stem Cells			
	Biliary tree stem cells isolated from the entire biliary tree of human liver including the common bile duct donated through the Federal Organ Procurement Organization.		
15001-010	Donor Lot FBT-1010	2M cells	\$800
15001-020	Donor Lot FBT-1020	2M cells	\$800
15001-055	Donor Lot FBT-1055	2M cells	\$800

PhoenixSongs Ethics Policy on Human Cells and Tissues

All stem/progenitor cells, mature cell types distributed by and used in PhoenixSongs *in vitro* studies come from tissues that have been rejected-for-transplant and obtained from major university hospitals or US accredited organ procurement organizations. The FL-HCC spheroids come from ascites fluid obtained through direct donation. Consent is obtained from the donor, or donor's next of kin, and conforms to all country specific federal and local legal and ethical standards (including ICH, HIPAA, Uniform Anatomical Gift Act, National Organ Transplant Act and UK HTA requirements). From these organizations or direct donors, a copy of the donor consent, medical history, and infectious disease testing for the presence of HIV, HBV, HCV, HSV, CMV and syphilis is received and reviewed to assure that each organ may be used for research purposes. Additionally, each tissue supplier working with PhoenixSongs has in place with the source facility material transfer agreements, and review of the process by the ethics committee or Institutional Review Board (IRB) from each source facility. We review these documents at the initiation of any new donor source, and if there has been any change or revision. Before processing the tissue, it is customary to review the donor consent paperwork to assure the isolation team that the donor, or donor's next of kin, has given consent for use of the tissue for research purposes. These reports and all other materials pertaining to the donor, the donated organ, and its processing are maintained in a physically secured location, with access available only to authorized persons. The records are stored in a manner to comply with HIPAA regulations; the records are de-identified. Any reference to the donor's identity is removed.

Please visit our website for additional information.

Hepatocyte Media – Co-developed and Marketed by QPS & PSB

Catalog #	Description	Unit Size	Unit Cost
CRM050	Cryopreserved Hepatocyte Recovery Media Complete serum-containing media for the recovery of cryopreserved hepatocytes. One tube should be used to recover 1-2 vials of hepatocytes upon thawing.	50ml	\$75.00
HPM250	Hepatocyte Plating Media Complete serum-containing media for plating cryopreserved human hepatocytes and human liver stromal cells. Includes basal medium, frozen supplement containing serum, glutamine and all necessary factors for attachment of hepatocytes and liver stromal cells.	250ml	\$100.00
HCM500	Hepatocyte Culture Media Complete serum-free media for maintenance of freshly isolated or cryopreserved human hepatocytes. Includes basal medium with serum-free supplement containing glutamine and all necessary factors.	500ml	\$150.00



PhoenixSongs and QPS Launch Our New Hepatic Model

PhoenixSongs and QPS Hepatic Biosciences have co-developed a new model with human hepatocytes and human liver stromal cells in a co-culture model that includes QPS human hepatocytes, PSB human liver stromal cells and hepatocyte media for recovery of cryopreserved hepatocytes, for plating and maintenance of fresh and cryopreserved hepatocytes that when cultured together can maintain hepatocyte function beyond 30 days in culture.

Human / Human Hepatic Co-Culture Model

Catalog #	Description	Unit Size	Unit Cost
Human Hepatocytes in Co-Culture with Human Liver Stromal Cells			
Human hepatocytes pre-plated together with human liver stromal cells on Collagen I coated 96-well plates – Promotional Item for New Release			
PHHCCP	Primary Human Hepatic Co-Culture Plates	Ea.	\$750.00
Liver Stromal Cells – Growth Arrested			
Liver stromal cells isolated from human livers donated through the Federal Organ Procurement Organization are growth arrested and ready to be co-cultured with any donor lot of hepatocytes, hepatoblasts or stem cells			
33002-018GA	Donor Lot LMSC-18	5M Cells	\$550.00
33002-1006GA	Donor Lot LMSC-1006	5M Cells	\$550.00
33002-1007GA	Donor Lot LMSC-1007	5M Cells	\$550.00
33002-1009GA	Donor Lot LMSC-1009	5M Cells	\$550.00
33002-1012GA	Donor Lot LMSC-1012	5M Cells	\$550.00
Human / Human Hepatic Model Cryopreserved Kit			
Includes one vial each of human hepatocytes and growth arrested human liver stromal cells. Media sold separately			
PHHCCK	Human / Human Hepatic Model Kit	Ea.	\$1500.00

Human Patient Derived Xenograft (PDX) Model

Catalog #	Description	Unit Size	Unit Cost
Human Fibrolamellar Hepatocellular Carcinoma Spheroids			
35002-010	Frozen FL-HCC Spheroids – Donor Lot Tu-2010 Spheroids of human tumor cells isolated from a solid liver fibrolamellar hepatocellular carcinoma (FL-HCC) that has been propagated in a mouse Patient Derived Xenograft (PDX) model and contains the DNAJB1-PRKACA fusion transcript. A sub-license is required before purchasing spheroids.	0.5-1M Cells	\$2500
35101-250	Kubota's FL-HCC Spheroid Growth Media The growth media is formulated to support the growth of the FL-HCC cancer stem cells grown as spheroids. The serum free media is made complete and is kept frozen until ready for use.	250ml	\$230
35301-030	FL-HCC Spheroid Dissociation Media The dissociation media is formulated to dissociate the FL-HCC spheroids into small clumps of cells for expansion of the FL-HCC cancer stem cells. Kept frozen until ready to use.	30ml	\$150
35302-500	Spheroid Wash Buffer The wash buffer is formulated to serve as a media that can be used to wash the Dissociation Media from the dissociated spheroids.	500ml	\$50
35201-050	FL-HCC Spheroid Freezing Media Spheroid Freezing media is formulated to support freezing spheroids and maximizing recovery during the freeze/thaw process for >90% viability post thaw. The serum free media is made complete and is kept frozen until ready for use.	50ml	\$120

Fibrolamellar Hepatocellular Carcinoma (FL-HCC) stem cells were isolated from ascites fluid using special culture conditions to select for cancer stem cells (CSCs) and were then transplanted into immunocompromised mice. Tumors formed and were established as a transplantable tumor line, that can be passaged from mouse to mouse; Such a tumor line is referred to as a patient-derived xenograft (PDX) model. This PDX model is the first ever established of a human FL-HCC tumor. Extensive characterizations of this PDX model elucidated many of its phenotypic traits including the DNAJB1-PRKACA fusion transcript, characteristic of FL-HCC tumors. These FL-HCC tumor cells are most easily maintained *ex vivo* in defined culture conditions as spheroids (purified tumor cells) or organoids (mix of tumor and mesenchymal cells).. The PDX model is unique in being highly enriched (>60%) in cancer stem cells (CSCs), a property correlating with some of the devastating properties known for this type of cancer. The initial detailed characterizations of this PDX model was reported in Nature Communications 2015 Oct 6;6:8070. doi: 10.1038/ncomms9070.

WE WANT TO THANK THE DAVIS FAMILY AND THE FIBROLAMELLAR CANCER FOUNDATION

A PERCENTAGE OF THE PROCEEDS WILL BE DONATED TO THE FOUNDATION

<http://fibrofoundation.org/>