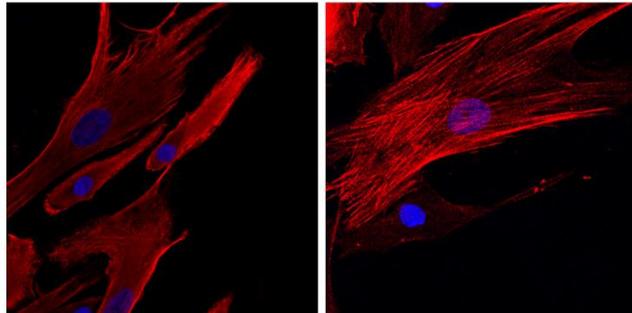




## Cryopreserved Human Hepatic Stellate Cells



vimentin

$\alpha$ SMA

**Cryopreserved Human Hepatic Stellate Cells** are isolated from whole human livers that are deemed not suitable for liver transplantation and have received consent to be donated for research. Stellate cells function in the storage of retinoid when in the quiescent state. Upon activation, stellate cells differentiate into fibroblast-like cells and are responsible for the production of collagen I and development of fibrosis. The cell composition consists of a homogenous population of hepatic stellate cells.

### QC Testing

Stellates are characterized by yield, viability, morphology, and passage. The purity of the stellate cell population is determined using FACS analysis for the % positive of cell surface markers vimentin (filament protein marker),  $\alpha$ -SMA (smooth muscle marker), and vinculin (cytoskeleton marker). Each stellate cell lot has a minimum of 100,000 cells per vial and a viability of  $\geq$  70%.

### Advantages

- **Reproducibility:** same donor can be used for long-term testing
- **Convenience:** no waiting for fresh stellate cells to become available and the cryopreserved vials are not time-sensitive
- **High post-thaw yield**
- **Co-culturing**
- **Passaged:** more hardy, greater number of cells than P0
- **More extensive donor information**

### Applications

Novabiosis stellate cells are ideal in studies of:

- chronic liver injury
- toxicity
- activation and differentiation
- NAFLD and NASH initiation and progression
- co-culturing
- fibrosis
- among many others

**Donor information including:** cause of death, age, gender, race, BMI, diabetic status, smoking history, alcohol use, substance use, HLA typing, serology and culture results, and co-morbidities, if any, is also included on the CoA.

### **Serology results include (positive or negative):**

CMV, EBV, Toxo, HBV, HCV, HIV-1, HIV-2. Additional serology results may be provided upon request.

### **Culture results include (positive or negative):**

Gram +, Gram -, Mycoplasma, Fungi.



## **Catalog Information and Related Products**

Cryopreserved Human Hepatic Stellate Cells, Passage 0

- Cat. # 6040

Cryopreserved Human Hepatic Stellate Cells, Passage 1

- Cat. # 6041

Cryopreserved Human Hepatic Stellate Cells, Passage 2

- Cat. # 6042

Cryopreserved Human Hepatic Stellate Cells, Passage 3

- Cat. # 6043

Stellate Cell Growth Medium, 250mL

- Cat. # 7002

## **Product Storage and Warranty**

### **CULTURES HAVE A LIMITED LIFESPAN *IN VITRO*.**

Upon receipt, immediately store cryovial(s) in vapor phase liquid nitrogen.

Cryopreserved human hepatocytes are viable for at least 2 years when stored under these conditions.

Novabiosis guarantees the performance of its cells only if following Novabiosis-specific instructions exclusively and the recommended products and protocols are used and followed.

The performance of the cells is not guaranteed if any modifications are made.

***THESE PRODUCTS ARE FOR RESEARCH USE ONLY.***