

HUMAN NON PARENCHYMAL CELLS



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BIOTECHNOLOGIES S.L.

Ref: HuNPC

NON PARENCHYMAL CELLS (NPCs)

Hepatic non-parenchymal cells (NPCs) represent about 30% of the liver and are specialized cells which interact with hepatocytes, presenting present organotypic hepatocyte-NPC interactions via direct contact or paracrine signaling, and forming a functional hepatic unit.

Therefore, these models are capable of recreating the physiological in vivo environment and is a fundamental requirement in obtaining a specific predictive response for the study of liver physiology/pathology or to perform new drug screenings and safety analysis with a high predictive value.

Likewise, liver co-cultures may increase the sensitivity of liver models for ADME/Tox-related research by recapitulating the complexity of a whole liver, offering the ability to manipulate numerous conditions, and analyze multiple parameters.

“Mix NPCs” provide a mixture of different types of liver cells, including native cell ratios of:

- Kupffer cells
- Liver Endothelial cells
- Stellate cells

Among their many functions, NPCs play an important role for liver regeneration as well as recovery from inflammatory liver injury and scarring.

KC are produced under rigorous QC Standards and supplied with:

- Demographic and clinical donor profile
- Viability and morphology assessment
- Culture protocols

Shipping conditions: dry ice / LN2 vapor container

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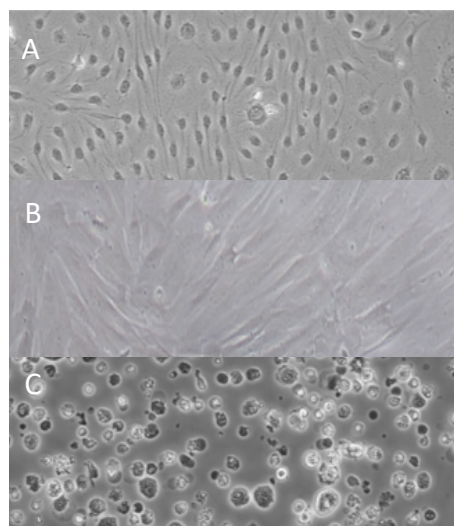
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CHARACTERIZATION

- Number of cells and Viability

COMMON USES

- Metabolism analysis
- Toxicity assessments
- Enzyme activity studies
- Prediction of metabolic clearance
- Drug-drug interaction assays
- Hepatotoxicity
- Metabolic profiling and assessment of stability
- Among Others



A. Plated Liver Endothelial cells
B. Plated Stellate cells
C. Plated Kupffer cells

We recommend using cells for experiments at earliest passage after initial plating.