

Göttingen Minipig Hepatocytes

Hepatocytes are the most prominent cells within the liver. They synthesize albumin, produce urea and eliminate toxic substances from the blood. In this biotransformation process transporter proteins (influx and efflux transporter) and phase I+II reactions play a central role. Primary hepatocytes are perfectly suited for *in vitro* metabolism and toxicity studies prior to preclinical tests.

Minipig hepatocytes are isolated from livers obtained from male or female Göttingen Minipigs and are available fresh as suspensions or in various culture formats (6, 12, 24 and 96well) as well as cryopreserved.

It is recommended to culture Minipig hepatocytes on collagen coated culture plates in PRIMACYT's serum-free HHMM (Human Hepatocyte Maintenance Medium). Hepatocyte specific morphology and cytochrome P450 protein activities are maintained and/or remain inducible under these culture conditions (Fig. 1 and 2).

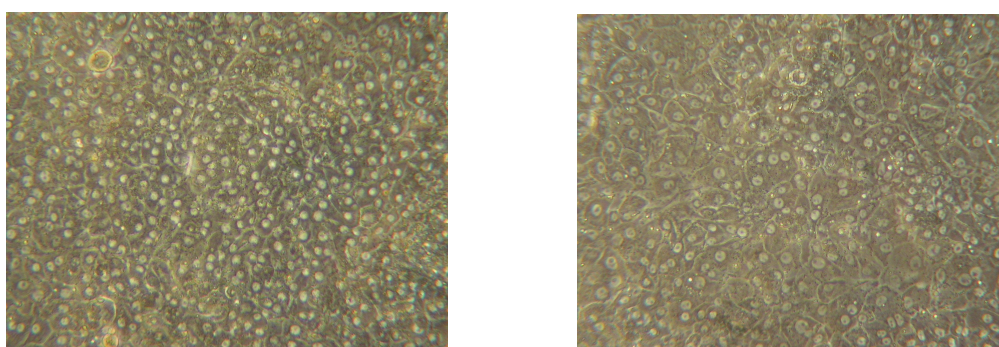


Fig 1: Göttingen Minipig hepatocytes at day 3 of culture in 24well plates cultured with HHMM (left: fresh Minipig hepatocytes, right: cryopreserved Minipig hepatocytes).

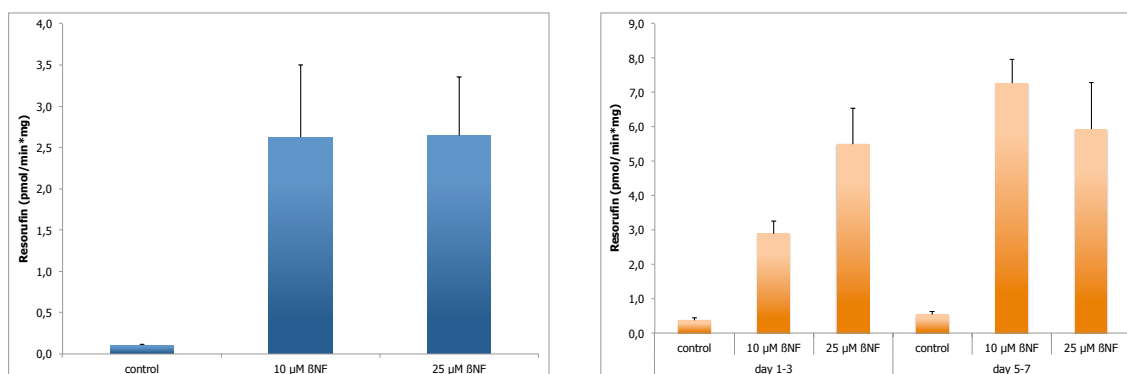


Fig 2: Induction of Ethoxyresorufin-O-deethylase (EROD) activity by β -Naphthoflavone (β -NF) for 48 h in Göttingen Minipig hepatocytes cultured with HHMM (left: fresh hepatocytes, induction day 3-5; right: cryopreserved hepatocytes, induction day 1-3 and day 5-7).

Only for research purposes. Not for use in human diagnostics or therapeutics.

Biohazard warning: Tissue fractions such as hepatocytes should be considered as potentially biohazardous, and should be treated as biohazards in the laboratory.

Ellegaard Göttingen Minipigs provides us with the necessary livers for the isolation of hepatocytes.

For availability: Please see the hepatocyte isolation calendar on our website at www.primacyt.com for scheduled isolations or send an e-mail to info@primacyt.com.