

## Human Hepatocyte Maintenance Medium - Long Term

PRIMACYT has developed HHMM (Human Hepatocyte Maintenance Medium – Long Term). HHMM is a serum-free culture medium containing Hepatocyte Growth Factor and Epidermal Growth Factor that allows cultivation of differentiated human hepatocytes for several weeks. Hepatocyte specific functions like detoxification of ammonia (urea synthesis and release) and albumin synthesis are maintained for several weeks. Cytochrome P450 protein expression and enzymatic activity is maintained and/or remains inducible (Fig. 1 and 2). HHMM may be used for long-term cultivation of hepatocytes or in hepatocyte bioreactors.

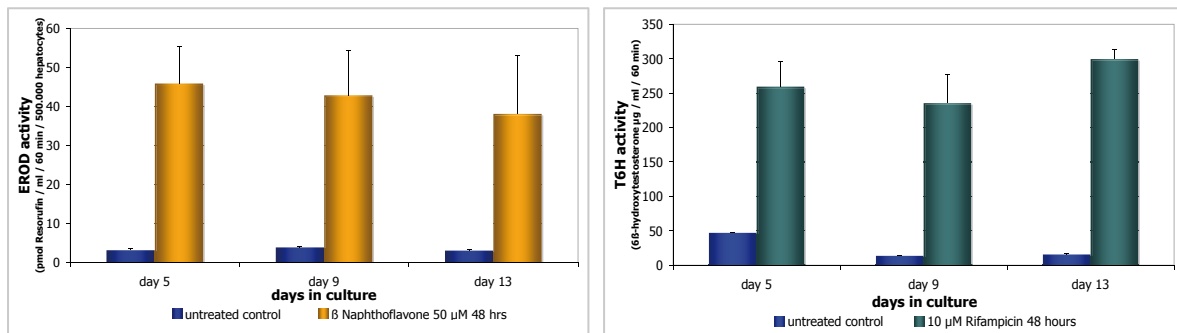


Fig. 1: Induction of CYP1A2 associated EROD activity by  $\beta$ -Naphthoflavone (left) and CYP3A4 associated Testosterone-6 $\beta$ -hydroxylase (T6H) by Rifampicin (right) in human hepatocytes cultured in HHMM.

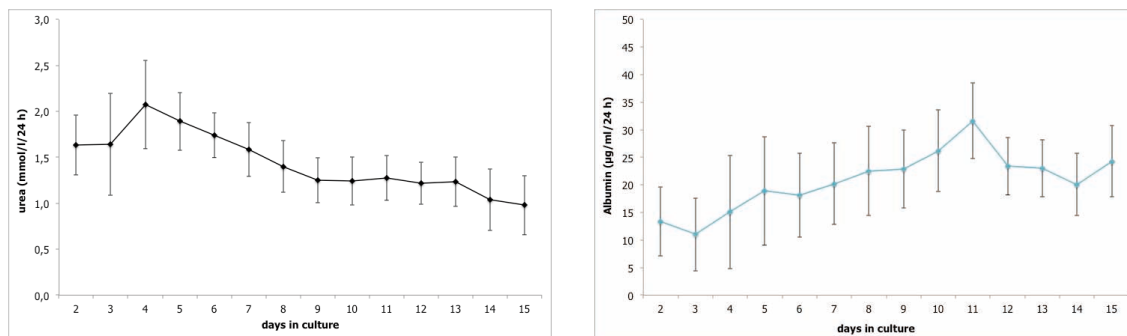


Fig. 2: Monitoring of hepatocellular functions: urea release (left) and albumin production (right) in human hepatocytes from multiple donors cultured in HHMM.

Human Hepatocyte Maintenance Medium is recommended for the culture of human, Cynomolgus, Beagle and Göttingen Minipig hepatocytes.

### Related Products

HPM-500	Hepatocyte Plating Medium
CCP-xx	Collagen Coated Cell Culture Plates
RTC-100	Rat Tail Collagen
HHS-01	Human Hepatocytes in Suspension
HHP-xx	Human Hepatocytes on Collagen Coated Plates
CHS-01	Cynomolgus Hepatocytes in Suspension
CHP-xx	Cynomolgus Hepatocytes on Collagen Coated Plates
BHS-01	Beagle Hepatocytes in Suspension
BHP-xx	Beagle Hepatocytes on Collagen Coated Plates
GHS-01	Göttingen Minipig Hepatocytes in Suspension
GHP-xx	Göttingen Minipig Hepatocytes on Collagen Coated Plates

Available plate formats (-xx): 6-well, 12-well, 24-well, 96-well