

Culture of Primary Hepatocytes

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Version 03

Recommended culture media

- HHMM (Human Hepatocyte Maintenance Medium): for serum-free culture of human, monkey, and dog hepatocytes
- HGM (Hepatocyte Growth Medium): for serum-free culture of rat hepatocytes

1. Arrival of plated hepatocytes in your laboratory

- Remove adhesive sealing film from the plate and place the plate at 37 °C / 5 % CO₂
- Heat the culture medium to 37 °C (no longer than 15 min)
- Aspirate supernatant
- Optional: wash the cells with warm 0.9 % NaCl or PBS
 - 6well: 2 ml/well
 - 12well: 1 ml/well
 - 24well: 0.5 ml/well
 - 96well: 50 µl/well
- Recommended volume of culture medium:
 - 6well: 1 ml/well
 - 12well: 0.5-1 ml/well
 - 24well: 0.3-0.5 ml/well
 - 96well: 50 µl/well
- Continue the culture at 37 °C / 5 % CO₂

2. Culture of hepatocytes

- Change the medium daily (especially when cells are plated at high density)
- Change the medium quickly, do not let the cells dry
- Heat the culture medium to 37 °C (no longer than 15 min)
- Change the plating medium to culture medium
 - 6well: 1 ml/well
 - 12well: 0.5-1 ml/well
 - 24well: 0.3-0.5 ml/well
 - 96well: 50 µl/well

FOR IN VITRO RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC PROCEDURES.