

Supplement Table S1. Hep medium formulation

Volume	Substance
40 mL	Williams E colourless
5 mL	Daily Vits™ Tablets (NOWFoods, USA) in 200 mL Milli-Q water and filtered through a 0.22 µm filter (Millipore, USA)
5 mL	One Total Amino tablet (G&G Vitamins, UK) solubilised in 5 mL of PBS (Merck KGaA, Germany)
15 µL	Human Insulin (Merck KGaA, Germany) (final concentration: 0.51 µmol/L)
2 µL	Fatty acids (FA) from oil digested with lipase (Merck KGaA, Germany), inactivated ¹⁷ and filtered through a 0.22 µm filter (Millipore, USA)
	The osmolality of the mixture was 387 mOSM, measured with Osmomat 030 (Gonotec, Germany). After two days of culturing the cells with this medium, the supernatant had an osmolality between 290-310 mOSM