

Hepatocyte Concentrations and Volumes

Gel coat media should be added to all dishes or plates in the same volume as the cell media will be (see below). Gel coat media should sit at least 45 minutes before plating cells.

Dish Size	#Cells/Plate (Rat)	#Cells/Plate (Mouse)	Total Volume (mL)
15cm	18×10^6	--	15
10cm	5×10^6	3×10^6	5
6cm	3×10^6	2×10^6	3
35mm	--	0.4×10^6	1

When preparing dishes, add one extra dish onto total required to negate pipetting error. IE, 2 mouse 6 cm dishes are requested, prepare for 3: $3 \times (3 \times 10^6 \text{ cells}) = 9.0 \times 10^6 \text{ cells}$ in $3 \times 3 \text{ml} = 9 \text{mls}$ of media

Plate Size	#Cells/mL	#mL/well	Total #Cells/Plate	Total Volume/Plate (ml)
6 well	2×10^5	2	2.4×10^6	12
12 well	2×10^5	1	2.4×10^6	12
24 well	1.5×10^5	1	3.6×10^6	24
96 well	2×10^4	100ul	1.92×10^6	9.6

When preparing dishes, add 0.25 onto total required to negate pipetting error. IE, 2 6 well plates are requested, prepare for 2.25: $2.25 \times (2.4 \times 10^6 \text{ cells}) = 5.4 \times 10^6 \text{ cells}$ in $2.25 \times 12 \text{ml} = 27 \text{mls}$ of media