

Table 1: Media recipes for MCF-10A Cells

Component	Growth Medium¹	Resuspension Medium¹	Assay Medium¹ (Without EGF)
DMEM/F12 (Invitrogen #11330-032)	500.0 ml	400.0 ml	500.0 ml
Horse Serum (Invitrogen#16050-122)	25.0 ml (5% final)	100.0 ml (20% final)	10.00 ml (2% final)
EGF (100µg/ml stock) ²	100 µl (20ng/ml final)	--	--
Hydrocortisone (1mg/ml) ³	250 µl (0.5 mg/ml final)	--	250 µl (0.5 µg/ml final)
Cholera Toxin (1mg/ml stock) ⁴	50 µl (100 ng/ml final)	--	50µl (100 ng/ml final)
Insulin (10mg/ml stock) ⁵	500 µl (10µg/ml final)	--	500µl (10µg/ml final)
Pen/Strep (100x solution, Invitrogen #15070-063)	5.0 ml	5.0 ml	5.0 ml

Notes:

- 1) For each medium type, premix all of the appropriate additives, sterile filter through a 0.2 µm filter, and add to DMEM/F12 medium bottle.
- 2) EGF: (Peprotech, 1 mg): Resuspend at 100 µg/ml in sterile dH₂O. Store aliquots at -20°C.
- 3) Hydrocortisone: (Sigma #H-0888, 1 g bottles) Resuspend at 1 mg/ml in 200 proof ethanol and store aliquots at -20°C.
- 4) Cholera Toxin: (Sigma #C-8052, 2 mg vials) Resuspend at 1 mg/ml in sterile dH₂O and allow to reconstitute for about 10 minutes. Store aliquots at 4°C.
- 5) Insulin: (Sigma #I-1882, 100 mg vials) Resuspend at 10 mg/ml in sterile dH₂O containing 1% glacial acetic acid. Shake solution and allow 10-15 min to reconstitute. Store aliquots at -20°C.