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Media for culturing cells

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1 Works for me

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Berrenslab



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ABSTRACT

common ES cell media for mouse embryonic stem cells

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ES cell media

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ES Medium

A	B	C	D
Reagent	Volume	Supplier	Cat.number
DMEM without sodium pyruvate*	500 ml	Invitrogen	41965-039
Fetal calf serum ** (13% final)	75 ml	GlobePharm	
Non-essential amino acids, 100x	5 ml	Invitrogen	11140-035
L-glutamine, 200mM, (100x)	5 ml	Invitrogen	25030-024
b-mercaptoethanol, 50 mM	0.6 ml	Invitrogen	31350-010
Penicillin/Streptomycin	5 ml	Invitrogen	15140-122
LIF (ESGRO) (now we use home- made LIF-conditioned medium)	1ml (check current titer and add accordingly)		

- some people remove 50 ml of DMEM and replace it with 50 ml of Analar water or just add 50 ml of Analar water to 500 ml of media, but we don't do this.
- fetal calf serum should be batch tested for ES cell growth/differentiation and toxicity

EC10 media

2 Medium for differentiated ES cells and most fibroblast cultures (EC10)

A	B	C	D
Reagent	Volume	Supplier	Cat.number
DMEM without sodium pyruvate*	500 ml	Invitrogen	41965-039
Fetal calf serum**	50 ml	GlobePharm	
Non-essential amino acids, 100x (optional)	5 ml	Invitrogen	11140-035
L-glutamine, 200mM, (100x)	5 ml	Invitrogen	25030-024
b-mercaptoethanol, 50 mM	0.5 ml	Invitrogen	31350-010
Penicillin/Streptomycin	5 ml	Invitrogen	15140-122