Components and Supplementation of Various Culture Media

Abbreviations:
DMEM = Dulbecco's Modified Eagle's Medium
FCS = Fetal Calf (or Bovine) Serum
GPS = Glutamine-Penicillin-Streptomycin
BME = b-Mercaptoethanol
DMSO = Dimethylsulfoxide
HEPES = [4-(2-hydroxyethyl)-1-piperazineethanesulfonic acid]

Buffer
NEAA = Non-essential Amino Acids
N = Nucleosides

Feeder/STO Medium

DMEM
7% FCS
1X GPS

M15 (ES Cell Growth Medium)

DMEM
15% FCS
1X GPS
1X BME

2X Freezing Medium
This should be freshly prepared for each use. Wear gloves when working with DMSO.

60% DMEM
20% FCS
20% DMSO

Injection Medium

DMEM
5% FCS
20 mM HEPES pH 7.2-7.4

Embryo Culture Medium

DMEM
20% FCS
1X GPS
1X BME
1X NEAA
1X N
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