

**Table S1: Composition of culture media.**

Supplement	Final concentration	Manufacturer
<b>3+ medium</b>		
Advanced DMEM		Gibco™
GlutaMax (100x)	1x	Gibco™
1M Hepes	10 mM	Gibco™
Penicillin/ Streptomycin	0.1 mg/ml	PAN-Biotech
<b>Minimal medium</b>		
3+ medium		
N2 supplement (100x)	1x	Gibco™
B27 supplement (50x)	1x	Gibco™
N-Acetylcysteine	1.25 mM	Sigma-Aldrich®
<b>Complete culture medium</b>		
3+ medium		
Wnt-3a (human)	100 ng/ml	Biotechne®
R-spondin (human)	1 µg/ml	PeproTech Inc.
EGF (human)	50 ng/ml	PeproTech Inc.
Noggin (murine)	100 ng/ml	PeproTech Inc.
B27 supplement	1x	Gibco™
Nicotinamide	10 mM	Sigma-Aldrich®
N-Acetylcysteine	1.25 mM	Sigma-Aldrich®
Gastrin	10 nM	Sigma-Aldrich®
SB202190	3 µM	Stemcell Technologies
A38-01	500 nM	Stemcell Technologies
Y-27632	10.5 µM	Stemcell Technologies
Ciprofloxacin	10 µg/ml	Fresenius Kabi Deutschland GmbH
Primocin	100 µg/ml	InvivoGen