

Supplementary Information

Assembloid medium

Component	Stock concentration	Final concentration	Volume (50 ml)
Advanced DMEM/F12	-	95% (v/v)	47.5 ml
GlutaMAX Supplement	100X	1X	500 µl
B-27 Supplement	50X	0.5X	500 µl
Mouse EGF	100 µg/ml	50 ng/ml	25 µl
Nicotinamide	1 M	10 mM	500 µl
N-acetyl-L-cysteine	200 mM	1 mM	250 µl
HEPES (pH 7.4)	1 M	10 mM	500 µl
A8301	25 mM	1 µM	2 µl
Penicillin/streptomycin	100X	1X	500 µl