

Media Formulations for Derivation, Propagation and Maturation of Motor Neural Cultures					Add immediately before use	Light Sensitive			
Neural Differentiation Media (NDM)	Stock Concentration	Units	1X Concentration	Units	Volume 1,000 mL	Volume 500 mL	Volume 250	Volume 100	Volume 50
IMDM	1X	mL	47.5%	mL	475 mL	237.5 mL	118.75	47.5	23.75
F-12	1X	mL	47.5%	mL	475 mL	237.5 mL	118.75	47.5	23.75
Non-Essential Amino Acids (NEAA)	100X	mL	1.0%	mL	10 mL	5 mL	2.5	1	0.5
B-27	50X	mL	2.0%	mL	20 mL	10 mL	5	2	1
N-2	100X	mL	1.0%	mL	10 mL	5 mL	2.5	1	0.5
PSA	100X	mL	1.0%	mL	10 mL	5 mL	2.5	1	0.5

Motor Neuron Maturation Media (MNMM) Stage 1	Stock Concentration	Units	1X Concentration	Units	Volume 500	Volume 250	Volume 100	Volume 50	Volume 25	Volume 10
NDM	1X	mL	99.8%	mL	498 mL	249 mL	99.6 mL	49.8	24.9	9.96
All-trans Retinoic Acid (ATRA)	10	mM	10.0%	µM	5 µL	2.5 µL	1 µL	0.5	0.25	0.1
PMN	10	mM	100.0%	µM	50 µL	25 µL	10 µL	5	2.5	1
BDNF	10	µg/mL	10	ng/mL	500 µL	250 µL	100 µL	50	25	10
GDNF	10	µg/mL	10	ng/mL	500 µL	250 µL	100 µL	50	25	10
Ascorbic Acid	500	µg/mL	200	ng/mL	200 µL	100 µL	40 µL	20	10	4
db-cAMP	102	mM	1	µM	5 µL	2.5 µL	1 µL	0.5	0.25	0.1
DAPT	20	mM	2.5	µM	62.5 µL	31.3 µL	12.5	6.3	3.1	1.6

Motor Neuron Maturation Media (MNMM) Stage 2	Stock Concentration	Units	1X Concentration	Units	Volume 500	Volume 250	Volume 100	Volume 50	Volume 25	Volume 10
Neuralbasal	1X	mL	98.8%	mL	482 mL	241 mL	96.4 mL	48.2	24.1	9.64
NEAA	100X	mL	1.0%	mL	5 mL	2.5 mL	1 mL	0.5 mL	0.25 mL	0.1 mL
Glutamax	200X	mL	0.5%	mL	2.5 mL	1.25 mL	0.5 mL	0.25	0.125	0.05
N-2	100X	mL	1.0%	mL	5 mL	2.5 mL	1 mL	0.5	0.25	0.1
BDNF	10	µg/mL	10	ng/mL	500 µL	250 µL	100 µL	50	25	10
GDNF	10	µg/mL	10	ng/mL	500 µL	250 µL	100 µL	50	25	10
Ascorbic Acid	500	µg/mL	200	ng/mL	200 µL	100 µL	40 µL	20	10	4
db-cAMP	102	mM	1	µM	5 µL	2.5 µL	1 µL	0.5	0.25	0.1
Ara-C	10	mM	0	µM	5 µL	2.5 µL	1 µL	0.5	0.25	0.1
PSA	100X	mL	0.01	mL	5 mL	2.5 mL	1 mL	0.5	0.25	0.1