

## Murine Gastrointestinal Organoid Media Formulations

HDDC Organoid Core, Breault Lab

Updated 10/28/19

### Murine Small Intestine (ENR) Media (100mL)

Component	Volume	Catalog #	Final Concentration
Rspondin-1 Conditioned Media	10mL	HDDC Organoid Core	10%
Advanced DMEM/F-12	85mL	Life Technologies 12634028	85%
Glutamax (100X)	1mL	Life Technologies 35050061	1X
HEPES (1M)	1mL	Life Technologies 15630080	10mM
Primocin (50mg/mL)	200uL	Invivogen ant-pm-1	100ug/mL
Normocin (50mg/mL)	200uL	Invivogen ant-nr-1	100ug/mL
B27 Supplement (50X)	1mL	Life Technologies 12587010	0.5X
N2 Supplement (100X)	500uL	Life Technologies 17502001	0.5X
N-Acetyl-Cysteine (500mM)	250uL	Sigma A7250	1.25mM
Noggin (100ug/mL)	100uL	Peprotech 250-38	100ng/mL
EGF(500ug/mL)	10uL	Peprotech 315-09	50ng/mL

**Murine Colon (ENRW) Media (100mL)**

<b>Component</b>	<b>Volume</b>	<b>Catalog #</b>	<b>Final Concentration</b>
NRW Conditioned Media	50mL	HDDC Organoid Core	50%
Advanced DMEM/F-12	45mL	Life Technologies 12634028	45%
Glutamax (100X)	1mL	Life Technologies 35050061	1X
HEPES (1M)	1mL	Life Technologies 15630080	10mM
Primocin (50mg/mL)	200uL	Invivogen ant-pm-1	100ug/mL
Normocin (50mg/mL)	200uL	Invivogen ant-nr-1	100ug/mL
B27 Supplement (50X)	1mL	Life Technologies 12587010	0.5X
N2 Supplement (100X)	500uL	Life Technologies 17502001	0.5X
N-Acetyl-Cysteine (500mM)	250uL	Sigma A7250	1.25mM
EGF(500ug/mL)	10uL	Peptotech 315-09	50ng/mL

**Murine Gastric (ENRWF) Media (100mL)**

<b>Component</b>	<b>Volume</b>	<b>Catalog #</b>	<b>Final Concentration</b>
NRW Conditioned Media	50mL	HDDC Organoid Core	50%
Advanced DMEM/F-12	45mL	Life Technologies 12634028	45%
Glutamax (100X)	1mL	Life Technologies 35050061	1X
HEPES (1M)	1mL	Life Technologies 15630080	10mM
Primocin (50mg/mL)	200uL	Invivogen ant-pm-1	100ug/mL
Normocin (50mg/mL)	200uL	Invivogen ant-nr-1	100ug/mL
B27 Supplement (50X)	1mL	Life Technologies 12587010	0.5X
N2 Supplement (100X)	500uL	Life Technologies 17502001	0.5X
N-Acetyl-Cysteine (500mM)	250uL	Sigma A7250	1.25mM
EGF(500ug/mL)	10uL	Peptotech 315-09	50ng/mL
Gastrin (100uM)	10uL	Sigma G9145	10nM
FGF-10 (200ug/mL)	50uL	Peptotech 100-26	100ng/mL