

## Human Gastrointestinal Organoid Media Formulations

HDDC Organoid Core, Breault Lab

Updated 10/28/19

### Human Duodenum Media (100mL)

Component	Volume	Catalog #	Final Concentration
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
Nicotinamide (1M)	1mL	Sigma N0636	10mM
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)	100uL	Sigma A7250	500uM
A-83-01 (500uM)	100uL	Sigma SML0788	500nM
SB202190 (30mM)	33.2uL	Sigma S7067	10uM
EGF(500ug/mL)	10uL	Peprtech 315-09	50ng/mL
Gastrin (100uM)	10uL	Sigma G9145	10nM

**Human Ileum & Colon Media (100mL)**

<b>Component</b>	<b>Volume</b>	<b>Catalog #</b>	<b>Final Concentration</b>
NRW Conditioned Media	65mL	HDDC Organoid Core	65%
Advanced DMEM/F-12	30mL	Life Technologies 12634028	30%
Glutamax (100X)	1mL	Life Technologies 35050061	1X
HEPES (1M)	1mL	Life Technologies 15630080	10mM
Primocin (50mg/mL)	200uL	Invivogen ant-pm-1	100ug/mL
Nicotinamide (1M)	1mL	Sigma N0636	10mM
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)	100uL	Sigma A7250	500uM
A-83-01 (500uM)	100uL	Sigma SML0788	500nM
SB202190 (30mM)	33.2uL	Sigma S7067	10uM
EGF(500ug/mL)	10uL	Peprtech 315-09	50ng/mL
Gastrin (100uM)	10uL	Sigma G9145	10nM
Prostaglandin-E2 (1mM)	1uL	Peprtech 3632464	10nM

**Human Gastric Media (100mL)**

<b>Component</b>	<b>Volume</b>	<b>Catalog #</b>	<b>Final Concentration</b>
NRW Conditioned Media	65mL	HDDC Organoid Core	65%
Advanced DMEM/F-12	30mL	Life Technologies 12634028	30%
Glutamax (100X)	1mL	Life Technologies 35050061	1X
HEPES (1M)	1mL	Life Technologies 15630080	10mM
Primocin (50mg/mL)	200uL	Invivogen ant-pm-1	100ug/mL
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B27 Supplement (50X)	1mL	Life Technologies 12587010	0.5X
N2 Supplement (100X)	500uL	Life Technologies 17502001	0.5X
N-Acetyl-Cysteine (500mM)	100uL	Sigma A7250	500uM
A-83-01 (500uM)	100uL	Sigma SML0788	500nM
SB202190 (30mM)	33.2uL	Sigma S7067	10uM
EGF(500ug/mL)	10uL	Peprtech 315-09	50ng/mL
Gastrin (100uM)	10uL	Sigma G9145	10nM
FGF-10 (200ug/mL)	100uL	Peprtech 3632464	200ng/mL