

Stem Cell Culture Media Selection Guide

Controlling the behavior of your stem cells to ensure stemness or to efficiently stimulate differentiation along a particular lineage can be challenging. Clontech offers a range of media and supplements for the derivation, maintenance, and expansion of embryonic stem (ES), induced pluripotent stem (iPS), embryonic germ (EG), and neural stem (NS) cells. Additionally, we offer products for the differentiation of ES and NS cells into neurons and mesenchymal stem (MS) cells into osteoblasts. Use the tables below to select the right media and supplements for your cell type and use.

Maintenance Media

These serum-free products are ideal for ES, EG, and iPS cell culture.

Product	Species	Cell Type*	Includes Culture Matrix	Feeder Free, Defined
DEF-CS [Cat. No. Y30010]	Human	iPS	X	X
GS1-R [Cat. No. Y40020]	Rat	ES and EG		
GS2-M [Cat. No. Y40030]	Human, Mouse	ES and iPS		X
iSTEM [Cat. No. Y40010]	Mouse	ES		X
primeSTEM-XF [Cat. No. Y40040] Xeno-free	Human	ES		X

*ES: embryonic stem; EG: embryonic germ; iPS: induced pluripotent stem

Differentiation Media

These products promote ES and NS cell differentiation along the neural lineage.

Product	Species	Cell Type*	Details
NDiff 227 [Cat. No. Y40002]	Mouse	ES	Neural differentiation; contains N2 and B-27
RHB-A [Cat. No. Y40001]	Human, Mouse	NS	Propagation and cell-type specific differentiation; contains growth factors
RHB-Basal [Cat. No. Y40001]	Human, Mouse	NS	Basal formulation of RHB-A; does not contain growth factors or neuronal supplements

*ES: embryonic stem; NS: neural stem

Supplements

The NDiff product line allows for the derivation, maintenance, and expansion of ES and NS cells as well as their differentiation into the neural lineage. The Osteoblast-Inducer Reagent promotes the differentiation of bone marrow-derived and adipose-derived MS cells into osteoblasts.

Species	Cell Type*	Serum Free, Defined	Animal free	Product



Human, Mouse	ES and NS to Neural lineage	X		NDiff N2 [Cat. No. Y40100]
		X	X	NDiff N2-AF [Cat. No. Y40110]
Human, Mouse	ES and NS to Neural lineage	X		NDiff N27 [Cat. No. Y40200]
		X	X	NDiff N27-AF [Cat. No. Y40210]
Mouse, Rat, Rabbit	MS to Osteoblasts	X		Osteoblast-Inducer Reagent (for animal cells) [Cat. No. MK430]

*ES: embryonic stem; NS: neural stem; MS: mesenchymal stem

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