KBM Neural Stem Cell

Developed and Commercialized with Professor Hideyuki Okano, MD, PhD,
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Overview

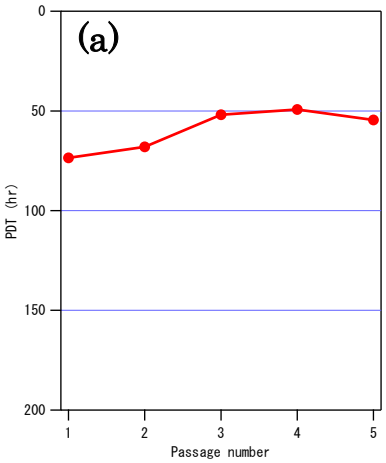
This medium is specialized for the neurosphere assay which is widely applied research and development regarding neural stem cells (NSCs) and neural cells. By adding KBM Neural Stem Cell Supplement to this medium and proceeding suspension culture, it is capable of culturing NSCs as neurospheres. Cultured neurospheres can produce new neurospheres by dispersing cells and re-culturing. It is also capable of inducing differentiation of NSCs into neural cells by adherent cell cultures of neurospheres, without addition of supplement.

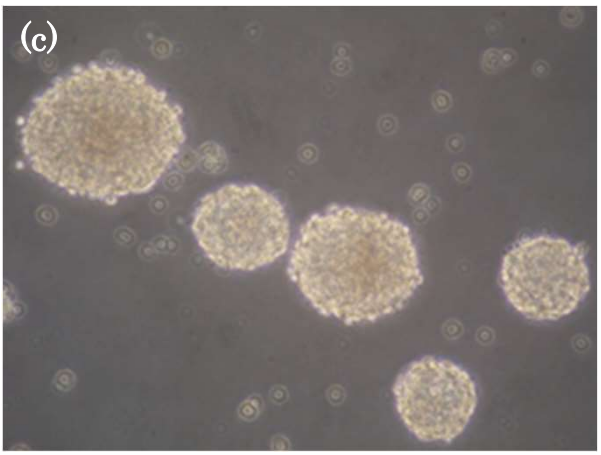
Characteristics

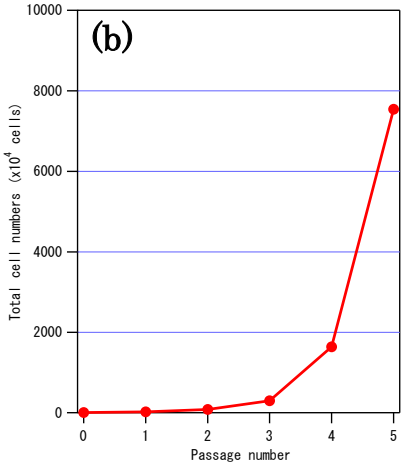
- Serum-free and chemically-defined
- Capable of both undifferentiated proliferation and inducing differentiation of NSCs.
- Confirmed the capability to culture NSCs derived human iPS cells.

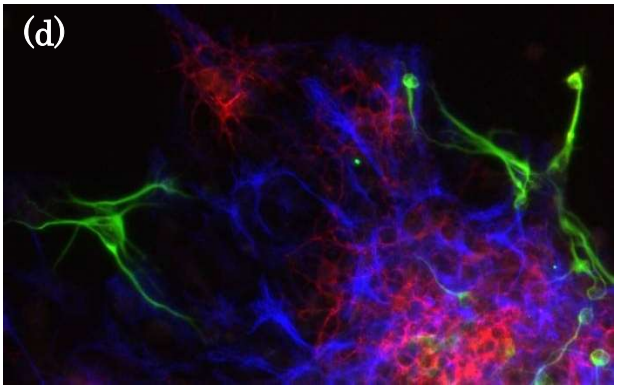
Cell Culture Example

(a) PDT variation at passages of NSCs
(b) Total number of NSCs at passages
(c) Picture of cultured neurospheres
(d) Picture of differentiated neurons









【Passage Culture Assay】

Culture medium
KBM Neural Stem Cell
＋KBM Neural Stem Cell Supplement

Cell culture vessel
6 well cell culture plate（corning 3471）

Protocols
Cells were seeded at 1×10^5 cells/mL, and passaged every 5 days.

【Differentiation Induction Assay】

Culture medium
KBM Neural stem cell

Cell culture vessel
Cell culture cover glass
Poly-L-ornithine coating

Protocols
Neurospheres were seeded and cultured for 5 days.

【Antibodies】

Green：anti-β tublin Ⅲ
Blue ：anti-GFAP
Red ：anti-CNPase

Product No.	Product Name	Size	Price	Shelf Life	Storage
16050100	KBM Neural Stem Cell	500 mL	JPY 20,000	1 year **	-20℃
16050300	KBM Neural Stem Cell Supplement	1mL	JPY 10,000	1 year **	-20℃

* made up of KBM Neural Stem Cell and KBM Neural Stem Cell Supplement
** from production date

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