## Serum-Free Medium for Neural Stem Cell

# **KBM Neural Stem Cell**

## <u>Overview</u>

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 reculturing. It is also capable of inducing differentiation of NSCs into neural cells by adherent cell cultures of neurospheres, without addition of supplement.

# **Characteristics**

## [KBM Neural Stem Cell+Supplement]

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

## [КВМ ХВ2]

- Chemically-defined supplement(50x concentration)
- Contains retinoic acid(vitaminA)/

# Cell Culture Example

(a) PDT variation at passages of NSCs(d) Picture of differentiated neurons



### [Culture Condition(a,b,c)]

Culture medium

- KBM Neural Stem Cell
- +KBM Neural Stem Cell Supplement

<u>Cell culture vessel</u>

6 well cell culture plate (corning 3471)
Protocols
Colls wave coeded at 1×105 --11-/--1

Cells were seeded at  $1 \times 10^5$  cells/mL, and passaged every 5 days.

#### (b) Total number of NSCs at passages (e)Picture of differentiated neurons using XB2



#### [Culture Condition(d)]

- <u>Culture medium</u> KBM Neural stem cell
- Cell culture vessel
- Cell culture cover glass
- Poly-L-ornithine coating
- Protocols

Neurospheres were seeded and cultured for 5 days. (c) Picture of cultured neurospheres







[Antibodies(d)] Green : anti-8 tublin III Blue : anti-GFAP Red : anti-CNPase [Antibodies(e)] Green : TuJ-1

[Culture Condition(e)] <u>Culture medium</u> KBM Neural stem cell + KBM XB2 <u>Cell culture vessel</u> Cell culture cover glass Poly-L-ornithine coating <u>Protocols</u> Neurospheres were seeded and cultured for 5 days.

Product No.	Product Name	Size	Price	Shelf Life	Storage
16050100	KBM Neural Stem Cell	500  mL	JPY 20,000	1 year	-20°C
16050300	KBM Neural Stem Cell Supplement	1mL	JPY 8,500	3 year	-20°C
16050400	KBM XB2	10 mL	JPY 23,000	2 year	-20°C
* This Product is sold for research purposes only					



Address: 5-1-3 Chiyoda, Sakado-shi, Saitama, 350-0214, Japan TEL: +81-(0)49-284-3781 FAX: +81-(0)49-284-4784 e-mail: info@kohjin-bio.co.jp URL: http://www.kohjin-bio.co.jp

