BMEM Dissociation –
Optimized, ready to use dissociation reagent for human iPSC

Ships at room temperature

Catalog number: 1003 **500 mL**

Product Description

BMEM Dissociation is a ready to use, highly optimized, chemically defined, animal component-free, enzyme-free dissociation reagent for passaging human induced pluripotent stem cells (hiPSCs) in adherent culture.

BMEM Dissociation contains an optimized concentration of dissociation agents and a BMEM-based buffered solution for optimal cell survival during passaging. BMEM Dissociation has been extensively tested for compatibility with weekend-free and no-change feeding schedules protocols.

BMEM Dissociation is recommend for use with hiPSC cultured in BMEM Human Primed Pluripotent (1001).

BMEM Dissociation is compatible with a variety of culture matrices, including: Corning® Matrigel® GFR (354230), Gibco™ Geltrex™ GFR (A1413202), R&D Systems™ Cultrex™ UltiMatrix GFR (BME001-05), SigmaAldrich® ECMatrix™-511 E8 Laminin (CC160), Gibco™ Recombinant Vitronectin (A14700), Corning® Synthemax II-SC (3535).

Each lot of BMEM Dissociation is performance tested on hiPSC.

COMPONENT NAME	SIZE	STORAGE
BMEM Dissociation	500 mL	Store at room temperature

Instructions for Use

BMEM Dissociation is ready to use at room temperature and does not need to be warmed to 37 °C prior to use.

Directions for Use

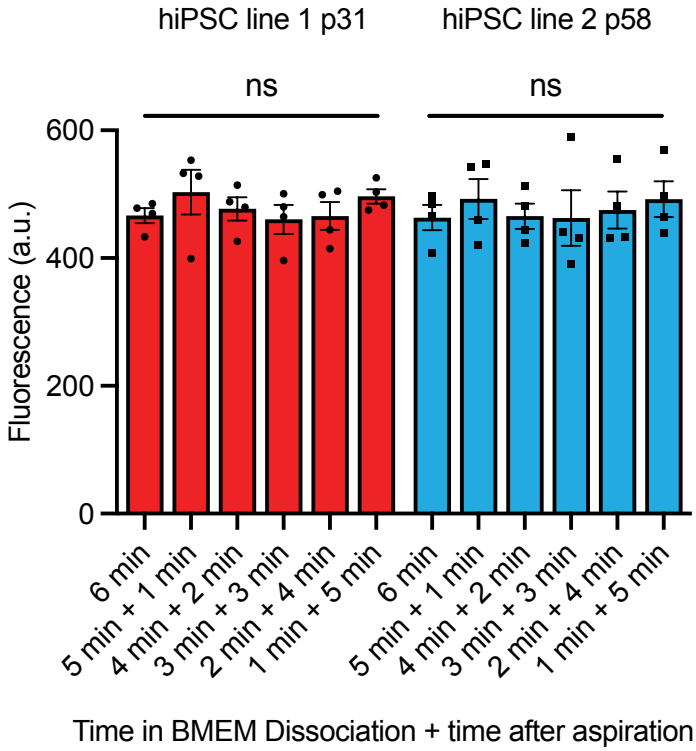
Cells should be grown according to directions in the BMEM + Primed Supplement Kit (1001). When cells reach 70-80% confluent (typically 4 days), aspirate spent media. Add 1 mL of BMEM Dissociation to each well of a 6-well plate (or mL/cm equivalent) with a serological pipette and leave the plate the cell culture hood. After 1 minute aspirate the BMEM Dissociation and leave the plate in the cell culture hood an additional 5 minutes. Using 1 mL of BMEM + Primed Supplement + thiazovivin in a P1000 pipette tip, blast against the culture surface to release cells. Take the BMEM/cells up into the pipette (being careful not to make bubbles) and repeat blasting until all cells are released, this should be visible by eye and typically takes 5-10 repeats.

ROCK Inhibitor

Addition of a ROCK inhibitor to BMEM Human Primed Pluripotent, such as 2 µM thiazovivin or 10 µM Y27632 for 24 hours after passage is recommended to provide more reproducible passaging, reduce selective pressure, and allow higher split ratios.

Data

We have found a 1 min in BMEM Dissociation, aspiration, 5 min in the cell culture hood protocol to provides equivalent cell viability to 6 min in BMEM Dissociation. This new protocol is preferable as it eliminates the possibility of exposing the cells to BMEM Dissociation for too long and having them float off and be aspirated.



Product Use

For Research Use Only.

Not for diagnostic procedures.