



Product Specification

Product name	Lolina® Human BM-MSC stem-Prom® supplement kit 2, Xeno Free
Cat.No.	NaC20130102
Storage and shipping	NaC20130102-A: Store at -20 °C. Once added to medium, store at 4°C, do not refreeze after thawing. Dry ice transportation. NaC20130102-B: 2-8°C.

Product Description

Lolina® stem-Prom® supplement kit 2 is a sterile products which focus on sustaining high cell expression and proliferation. The kit is usually used as a BM-MSC in vitro culture supplement.

It has the following benefit:

Protect cells from stress and damage: rHSA has antioxidant and anti-stress effects, which can reduce oxidative stress damage to cells during culture. Meanwhile SafeGluta® is stable in the culture environment. Unlike L-Glutamine, it can provide cells with a stable supply of nutrients without spontaneously degrading and producing ammonia.

Provide essential nutrients and a stable environment: NaC20130102 can carry essential nutrients, provide the components required for cell metabolism, and maintain the stability of the culture environment.

Improve cell survival and proliferation rate: Adding NaC20130102 can significantly improve the survival and proliferation rate of MSCs, especially under low serum or serum-free culture conditions.

Enhance cell attachment and expansion ability: NaC20130102 can promote cell attachment and expansion on the culture matrix and enhance the interaction between cells and the matrix.

Components

Compound No.	Compounds	Size	Format
NaC20130102-A	r-Human serum albumin (HSA)	62.5mg	Lyophilized
NaC20130102-B	SafeGluta®	2.17g	Powder

Instructions for Use

1. Stock solution Preparation.

One kit is for 50ml cell culture medium.

The compounds are offered as powder in tubes. Please centrifuge before opening the cap to ensure the accuracy of the dosage.

Please carry out dissolution and packaging operations on a clean bench.

Spray the medium bottle and supplement tube with 70% ethanol and wipe to remove excess liquid. In a sterile field, remove the caps without touching the interior threads with fingers.

Reconstitute NaC20130102-A in sterile 0.9% NaCl solution. Aliquot into appropriate volumes of storage solution. When stored at -20°C, the stock solution is stable for 6 month. When stored at 4 °C, the stock solution is stable for 1 week.

Reconstitute NaC20130102-B in sterile 0.9% NaCl solution. Aliquot into appropriate volumes of storage solution. When stored at 2-8 °C, -20°C, the stock solution is stable for 24 month.

2. Reference Protocol

Step 1: Culture medium Preparation

- a. Thaw stock solutions of Lolina® Human BM-MSC stem-Prom® supplement kit 2.
- b. Dilute the stock solutions into regular culture medium without L-Glutamine to get complete culture medium.

Step 2: Cell culture

- c. Rapidly thaw frozen BM-MSC vials in a 37°C water bath.
- d. Transfer cells to a sterile conical tube with pre-warmed medium.
- e. Centrifuge at 300g for 5 minutes to pellet cells.
- f. Resuspend the cell pellet in complete culture medium plate into culture dishes/flasks.
- g. Change the medium every 2-3 days.

Note

Cell Density: Avoid over-confluence to maintain MSC multipotency.

Medium Preparation: Always prepare fresh medium, even though SafeGluta® enhances stability.

Contamination Control: Use aseptic techniques to prevent contamination.