

# STEMin1™ Dissociation Solution

**Product Code: TCL208**

## Intended Use:

STEMin1™ Dissociation Solution is used for dissociation of human MSCs, cultured in serum free medium.

## Principle and Interpretation:

STEMin1™ Dissociation Solution is a defined, serum free (SF), xeno-free (XF) dissociation solution for *in vitro* cultured human mesenchymal stem cells. Its exceptional purity increases specificity and reduces damage to cells that can be caused by other enzymes present in some trypsin extracts. The advantages of using TCL208 are as follows:-

1. Animal origin-free: It eliminates the risk of viruses, TSE-BSE other adventitious agents.
2. Compatible with serum free and Xeno free cultures

## Type of Specimen:

*in vitro* cultured human mesenchymal stem cells.

## Warning and Precautions:

*In Vitro* Diagnostic Use only. Read the label before opening the container. Wear protective gloves / protective clothing /eye protection /face protection. Follow proper aseptic techniques while handling specimens and cultures. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety datasheets.

## Directions

1. Culture the human MSCs in serum free medium.

2. Once the cells reach 70 – 80% confluence, aspirate the medium and discard. Do not disturb the monolayer.
3. Wash the cells with sufficient volume of DPBS to remove residual medium. Aspirate it off and discard.
4. Add appropriate volume of STEMin1™ Dissociation Solution in the culture vessel. Refer table.

Culture vessel	Recommended volume of STEMin1™ Dissociation Solution
T12.5	0.3ml
T25	0.5ml
T75	1.5ml
T175	3ml

5. Incubate the flask at 37°C. Complete dissociation requires 1 – 2 minutes.
6. Microscopically observe the flask at regular intervals. When the cells start rounding up, gently tap the flask to ensure complete detachment of cells from surface.
7. Add equal volume of STEMin1™ Neutralizer.
8. Pipette gently to get a homogenous cell suspension.
9. Centrifuge at 600rpm for 2 – 3 minutes.
10. Discard supernatant and suspend the pellet in 3ml fresh complete medium.

## Materials required but not provided:

STEMin1™ Defined, Serum-free, Xeno-free medium for expansion of human stem cells (AL520)  
STEMin1™ Attachment Solution (TCL206)  
STEMin1™ Neutralizer Solution (TCL209)

## Limitations:

Not applicable.

## Quality Control:

### Appearance

Colorless, clear solution.

### pH

7.0 - 7.6

### Osmolality in mOsm/Kg H<sub>2</sub>O

270 - 310

### Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

### Cultural Response

Cell Dissociation Test.

## Disposal:

User must ensure safe disposal by autoclaving and /or incineration of used or unusable preparations of this product. Follow established laboratory procedures for disposing infectious materials. The materials that come into contact with clinical samples must be decontaminated and disposed of in accordance with current laboratory techniques<sup>1,2</sup>.

## References:

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
2. Jorgensen, J. H., Pfaller, M.A., Carroll, K.C., Funke, G. Landry, M.L., Richter, S.S and Warnock., D.W. (2015), Manual of Clinical Microbiology, 11th Edition. Vol. 1.

## Storage and Shelf Life:

Shelf life of the product is 24 months.

Upon receipt store at -20°C in a freezer that is not self-defrosting.

Once thawed the product is stable about 2 weeks at 2 - 8°C.

Repeated freezing and thawing reduces enzymatic activity and should be avoided. Once thawed, the solution can be aliquoted in smaller volumes and frozen for future use.

Use before expiry date given on the product label.



In vitro diagnostic medical device



CE Marking



Consult instructions for use



Do not use if package is damaged



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Single use.  
Not intended to be  
reprocessed and/or used on  
another patient

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## Disclaimer:

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