

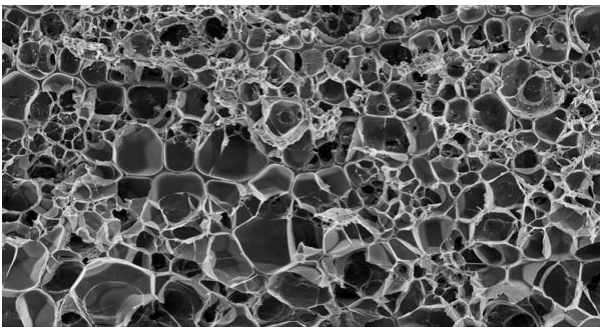
# CosiMatrix 3D cell culture support

## Product Description

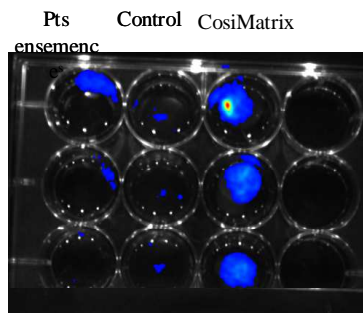
Description	Size	Cat.number
CosiMatrix 3D Culture Support, 10mm diam	1 x 10 U	IT2590
CosiMatrix 3D Culture Support, 8mm diam	1 x 10 U	IT2550
CosiMatrix 3D Culture Support, 8mm diam., RGD type	1 x 10 U	IT2800

## Introduction

CosiMatrix is a new biocompatible and synthetic compound for 3D cell culture proliferation. Sterile and easy to handling, Cosimatrix as 3d scaffold is particularly adapted for the studies of growth and in vitro / in vivo cellular differentiation ; Cells push inside the various structures and present a behavior closer to the physiology. Cosimatrix is suitable for multiple cell types, including, stem cells, cancer stem cells and tumor cells, osseous, chondrocytes cells. For the cells seeding Cosimatrix can be add with other cell culture reagents such as collagen, laminin, BME and CosiGel.



CosiMatrix is a polymer scaffold, adapted to the cellular culture. Interconnected pores have a size of 200µm thick (other thick are available on request). In this matrix, the cells are able to grow in the three dimension and interact with each other.



B16F10 cells blue fluorescent labeled

### Features

- Synthetic (high quality, reproducible lot to lot)
- easy to handling
- sterile
- Can be degraded easily without harm to cells
- Exists in RGD version available

### Applications

- 3D cells culture in 12 wells plate
- Convenient 3D pre-culture for dynamic process cultures
- Ideal as scaffold for in-vivo experiments (angiogenesis)
- higher biorelevancy for cells culture and assays

## Directions for use

1. The day before cell seeding prepare the well (24 wells/plate) by putting 100 µl agarose 1% previously heated. Once agarose is hardened, the discs of Cosimatrix are introduced in each well.
2. Add 500 µl of complete cell culture medium to each well during 24 h in sterile conditions.
3. Remove the cell culture medium before seeding tumor cells.
4. Seed tumor cells at different density depending on the duration of experiment in a maximal medium volume of 50µl:
  - 250 000 cells/well for 7-10 days of culture.
  - 500 000 cells/well for 3-5 days of culture
  - 1 M cells/well for 1-3 days of culture.
5. After 1 hour add a volume of complete cell culture medium (~500µl)
6. At the end of experiment, cells are recovered after trypsinization. Put each disc containing cells in a 15 ml tube.
7. Add 1 ml of trypsin 1X, put the tube at 37°C during 5 minutes,
8. Add 1 ml of complete medium to stop the reaction.
9. Add 10 ml of Sodium citrate 2% to dissolve the disc at 37°C.
10. After 20-30 minutes, remove the disc, and then centrifuge the medium + cells at 250 g, 5 minutes.
11. Remove the supernatant, put 1 ml of complete medium, and count the cells

## Related / associated products and documents

▲ CosiGel 3D, [IO6320](#)  
▲ Collagen I, [FX720A](#)

▲ Human Mesenchymal Stem Cell (hMSC),  
[HV8800](#)

## Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

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