

RAFT™ 3D Cultures with One Cell Type

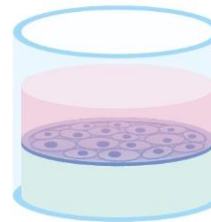
Cells embedded in RAFT™ 3D Matrix



- Traditional RAFT™ 3D Culture
- Used with fibroblasts, astrocytes, tumor cells etc.
- Cells **embedded** in RAFT™ 3D collagen matrix

24-well or 96-well plate

Cells layered on top of RAFT™ 3D Matrix



- Used with Epithelial or Endothelial cells
- Suitable for invasion assays
- Cells **layered on top** of acellular (blank) RAFT™ 3D Collagen Matrix

24-well or 96-well plate

Insert Model – Cells embedded in RAFT™ 3D Matrix

24-well permeable insert

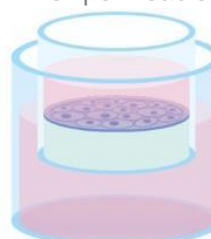


- RAFT™ 3D Culture in a 24-well plate permeable support insert
- Used with fibroblasts or smooth muscle cells
- Cells **embedded** in RAFT™ 3D Collagen Matrix

24-well plate

Insert Model – Cells on top of RAFT™ 3D Matrix

24-well permeable insert



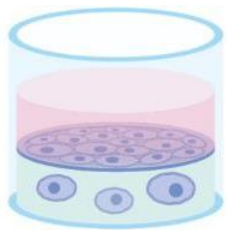
- RAFT™ 3D Culture in a 24-well plate permeable support insert
- Used for dermal or corneal models
- Cells **layered on top** of acellular RAFT™ 3D Collagen Matrix
- Optional: “Air-lift” model (culture media not added to insert)
- Suitable for invasion assays

24-well plate

****Not all of these models have previously been tested. We encourage customers to use this as a visual guideline to understand how the RAFT™ 3D Culture System may be assembled and tailored to fit specialized 3D cell culture needs.****

RAFT™ 3D Cultures with Multiple Cell Types

Traditional RAFT™ 3D Co-Culture Model

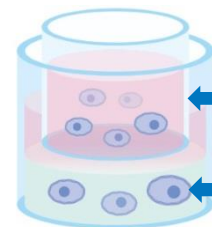


24-well or 96-well plate

- Epithelial or endothelial cells **layered on top** of RAFT™ 3D Collagen Matrix
- Traditional RAFT™ 3D Culture Cells **embedded** in RAFT™ 3D Collagen Matrix. Can be fibroblasts, tumor cells, astrocytes, smooth muscle cells, etc.

RAFT™ 3D Co-Culture Model with 2 cell types

24-well insert



24-well plate

- 24-well plate permeable support insert with no RAFT™ 3D matrix (e.g. astrocytes or immune cells)
- Traditional RAFT™ 3D Culture with cells **embedded** in RAFT™ 3D Collagen Matrix (neurons etc.)

RAFT™ 3D Insert Co-Culture Model

24-well insert

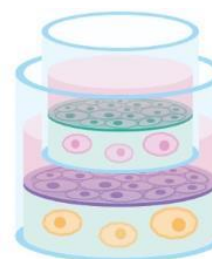


24-well plate

- RAFT™ 3D Cultures in a 24-well plate permeable support insert
- Co-culture **layered on top** (e.g. epithelial or endothelial cells) plus cells (e.g. fibroblasts, smooth muscle cells etc.) **embedded** in RAFT™ 3D Collagen Matrix
- Optional: "Air-lift" model (culture media not added to insert)
- Suitable for invasion assays

Complex RAFT™ 3D Model with 4 cell types

24-well insert



24-well plate

- 2 co-culture models combined
- 1st model inside 24-well plate permeable support insert
- Optional: "Air-lift" model (no culture media added to insert)
- 2nd model inside 24-well plate

****Not all of these models have previously been tested. We encourage customers to use this as a visual guideline to understand how the RAFT™ 3D Culture System may be assembled and tailored to fit specialized 3D cell culture needs.****

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- Visit our website at www.lonza.com/raft-3d-culture for more information

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