

RAFT™ 3D Cell Culture System

A Novel Method for Tissue Modeling



Simplify Your 3D Cell Culture

RAFT™ System is based on a unique absorber technology that creates high-density collagen scaffolds closely mimicking the native environment of cells. The system consists of defined components and optimized protocols simplifying the development of 3D cultures and enabling the reproducibility of results.

Easy to use – Create 3D cultures in less than an hour with simple protocols.

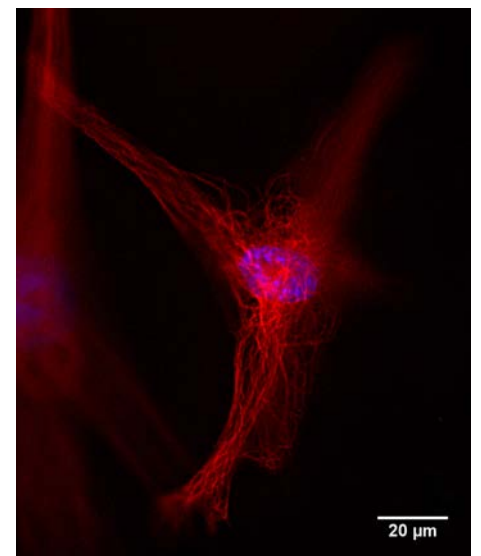
Well-recognized – Used with leading manufacturers' automation products such as Freedom EVO® Liquid handling and Cytation™ 3.

Versatile applications – Suitable for various analytical applications, including IHC, immunofluorescence and more.

Flexible formats – Available in 96-well, 24-well plate or 24-well inserts. Generate co-culture or barrier models with cells within or on top of collagen scaffold.

Published in many applications including liver models, tumoroids, blood brain barrier models and corneal models.

Learn how to develop 3D Cell Cultures using the RAFT™ System.
Watch the video: www.lonza.com/raft-3d-culture



Dermal fibroblasts fixed and stained after 11 days in RAFT™ System

www.lonza.com

www.lonza.com/raft-3d-culture

How Does RAFT™ System Work?

Cells are embedded in collagen I and RAFT™ Absorbers are utilized to condense and create well-controlled, high-density collagen scaffolds with cell type(s) of choice. This represents a natural, more *in-vivo* environment for cells to grow and interact more efficiently. 3D models in RAFT™ System can be created with one cell type or multiple cell types in parallel. Addition of cell culture inserts with permeable membrane enhances the versatility of the system by allowing the generation of barrier models including air-lift models. RAFT™ System is a simple-to-use, a semi-automated system that creates 3-dimensional cell cultures that are easy to handle.

RAFT™ Sequence



Ordering Information

Cat. No.	Description
RAFT™ 3D Cell Culture System	
016-1R16	RAFT™ Small Kit, 12 rxns, reagent and 24-well plate absorbers
016-1R17	RAFT™ 96-well Small Kit, reagent and 1 x 96-well plate absorbers
016-1R18	RAFT™ Small Kit, 12 rxns, reagent and transwell plate absorbers
016-1R10	RAFT™ 96-well Bundle Kit, contains {016-0R94 & 016-0R92}
016-1R24	RAFT™ 24-well Bundle Kit, contains {016-0R94 & 016-1R32}
016-1R25	RAFT™ 24-well Insert Bundle Kit {016-0R94 & 016-1R33}
016-1R32	RAFT™ Absorbers for 24-well plate 48 qty
016-1R33	RAFT™ Insert Absorber for 24-well plate, 48 qty, for inserts
016-0R92	RAFT™ Plate Kit, 4 x 96-well clear plate and 4 x 96-well absorber
016-0R94	RAFT™ Reagent Kit for 3D culture

Related Products

Cat. No.	Description
Primary Cells and Media	
CC-2565	NHA – Normal Human Astrocytes, cryopreserved in AGM™ BulletKit™
CC-2585	HCAEC – Human Coronary Artery Endothelial Cells, cryopreserved in EGM™ 2MV BulletKit™
CC-2511	NHDF-Ad Adult Dermal Fibroblasts, cryopreserved in FGM™ 2 BulletKit™
CC-2509	NHDF-Neo Neonatal Dermal Fibroblasts, cryopreserved in FGM™ 2 BulletKit™

Visit www.lonza.com/primary for a complete list of Clonetics™ Human Primary Cells and Media

Acellular RAFT™ 3D Cultures



Cells are embedded inside collagen scaffold for tissue modeling and long-term culture

Contact Information

North America

Customer Service: +1 800 638 8174 (toll free)
order.us@lonza.com

Scientific Support: +1 800 521 0390 (toll free)
scientific.support@lonza.com

Europe

Customer Service: +32 87 321 611
order.europe@lonza.com

Scientific Support: +32 87 321 611
scientific.support.eu@lonza.com

International

Contact your local Lonza distributor
Customer Service: +1 301 898 7025
Fax: +1 301 845 8291
scientific.support@lonza.com

Lonza Cologne GmbH – 50829 Cologne Germany

For research use only. Not for use in diagnostic procedures. Freedom EVO is a registered trademark of Tecan and Cytation is a trademark of BioTek Instruments.

All trademarks belong to Lonza or its affiliates or to their respective third party owners. The information contained herein is believed to be correct and corresponds to the latest state of scientific and technical knowledge. However, no warranty is made, either expressed or implied, regarding its accuracy or the results to be obtained from the use of such information and no warranty is expressed or implied concerning the use of these products. The buyer assumes all risks of use and/or handling. Any user must make his own determination and satisfy himself that the products supplied by Lonza Group Ltd or its affiliates and the information and recommendations given by Lonza Group Ltd or its affiliates are (i) suitable for intended process or purpose, (ii) in compliance with environmental, health and safety regulations, and (iii) will not infringe any third party's intellectual property rights.

©2017 Lonza. All rights reserved.
CD-TS074 03/17