

Organoid Qualified Cultrex™ Basement Membrane Extract

Cultrex Reduced Growth Factor Basement Membrane Extract (RGF BME), Type 2 is the original organoid-qualified extracellular matrix hydrogel. Specifically developed to have higher tensile strength, this organoid-qualified matrix enables robust and reproducible expansion, passaging, and differentiation of organoids. Each lot of Cultrex RGF BME, Type 2 undergoes extensive evaluation in-house for take rate, proliferation, and morphology of enteric organoids prior to release.

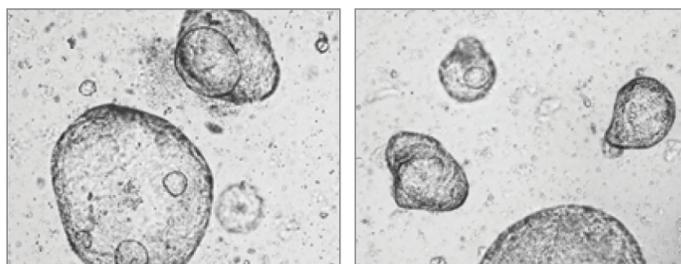
NAME	SIZE	CATALOG #
Cultrex Basement Membrane Extract, Type 2	1 ml	3532-001-02
	5 ml	3532-005-02
	2 x 5 ml	3532-010-02
Cultrex Reduced Growth Factor Basement Membrane Extract, Type 2	1 ml	3533-001-02
	5 ml	3533-005-02
	2 x 5 ml	3533-010-02
Cultrex Reduced Growth Factor Basement Membrane Extract, Type R1	1 ml	3433-001-R1
	5 ml	3433-005-R1
	2 x 5 ml	3433-010-R1

Benefits

- Designed for use in robust tissue organoid culture
- Improves organoid take rate and growth
- Reduced growth factor formulation provides a more defined culture system
- Bulk quantities & lot reservations available
- Sterility tested following USP <71> guidelines

Features

- Performance-qualified using enteric organoid cultures
- Optimized composition for high tensile strength
- Purified from Engelbreth-Holm-Swarm (EHS) tumor
- Pathogen-tested and LDEV-free



Human Pancreatic Organoids Cultured in Cultrex Reduced Growth Factor BME, Type 2. Human pancreatic progenitor cells were cultured in Cultrex RGF BME, Type 2 (Catalog # 3533-001-02) and were differentiated into pancreatic organoids.

Peer Reviewed Publications using Organoid Qualified Cultrex BME, Type 2

Hubrecht Institute

Artegiani, B. *et al.* (2019) Probing the Tumor Suppressor Function of BAP1 in CRISPR-Engineered Human Liver Organoids. *Cell Stem Cell* 24:927.

Stanford University

Co, J. *et al.* (2019) Controlling Epithelial Polarity: A Human Enteroid Model for Host-Pathogen Interactions. *Cell Reports* 26:2509.

Gurdon Institute

Broutier, L. *et al.* (2017) Human Primary Liver Cancer-derived Organoid Cultures for Disease Modelling and Drug Screening. *Nature* 23:1424.

University of California, Los Angeles

Phan, N. *et al.* (2019) A Simple High-throughput Approach Identifies Actionable Drug Sensitivities in Patient-derived Tumor Organoids. *Communications Biology* 2:78.

Stem Cell Qualified Cultrex Basement Membrane Extract

Cultrex Stem Cell Qualified Reduced Growth Factor Basement Membrane Extract (RGF BME) is the original pluripotent stem cell-qualified extracellular matrix hydrogel. Each lot undergoes extensive evaluation based on the attachment and maintenance of pluripotency for human embryonic stem cells (hESCs) and induced pluripotent stem cells (iPSCs) under feeder-free culture conditions.

Benefits

- Qualified for the culture of pluripotent stem cells
- Supports human iPSC and ESC expansion and differentiation
- Bulk quantities & lot reservations available
- Sterility tested following USP <71> guidelines

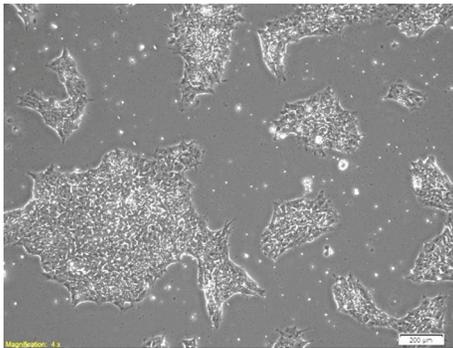
Features

- Purified from Engelbreth-Holm-Swarm (EHS) tumor
- Reduced growth factor formulation provides a more defined culture system
- Quality controlled for performance consistency
- Pathogen-tested and LDEV-free

NAME	SIZE	CATALOG #
Cultrex Stem Cell Qualified Reduced Growth Factor Basement Membrane Extract	1 ml	3434-001-02
	5 ml	3434-005-02
	2 x 5 ml	3434-010-02

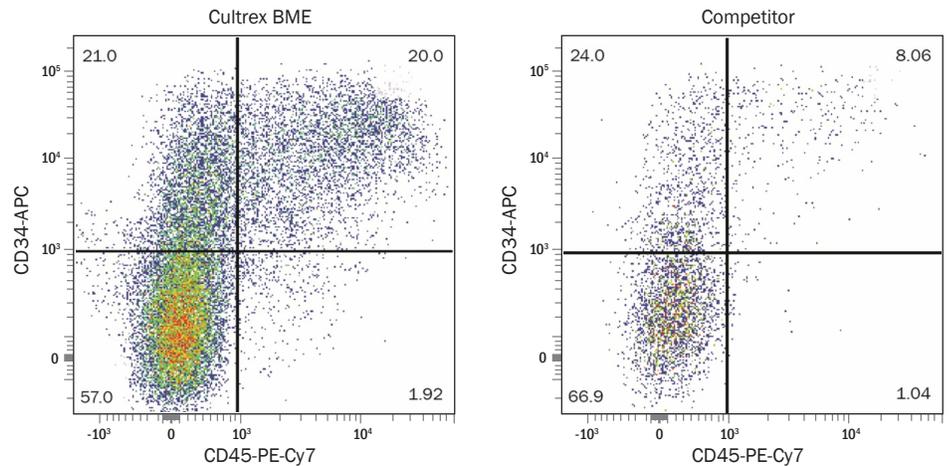
Application Data from the Field

Harvard Stem Cell Core



Colonies of iPSCs Grown on Cultrex Stem Cell Qualified RGF BME. Erythroblasts, reprogrammed into induced pluripotent stem cells (iPSCs), were cultured on plates coated with Cultrex Stem Cell Qualified RGF BME (Catalog # 3434-005-02). Example colonies are shown at 4X magnification. Data courtesy of the Harvard Stem Cell Core.

University of Colorado



Cultrex Stem Cell Qualified RGF BME Improves Hematopoietic Stem Cell Differentiation from Induced Pluripotent Stem Cells (iPSCs). iPSCs were grown for a minimum of 2 passages on either Cultrex Stem Cell Qualified RGF BME (R&D Systems, Catalog #3434-005-02) or a leading competitor's matrix, prior to creating embryoid bodies for hematopoietic stem cell differentiation. Cells pre-cultured on Cultrex Stem Cell Qualified RGF BME, showed a greater efficiency to develop into hematopoietic stem cells (CD34⁺, CD45⁺). Data courtesy of the Verneris Laboratory at the University of Colorado.

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