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Gibco™

Geltrex™ LDEV-Free Reduced Growth Factor Basement Membrane Matrix

Geltrex™ LDEV-Free Reduced Growth Factor Basement Membrane Matrix is a soluble form of basement membrane extracted from murine Engelbreth-Holm-Swarm Read more

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Catalog Number	Quantity
A1413202	5 mL
A1413201	1 mL

2 Options

Catalog number A1413202

Price (EUR) / 5 mL

240,00

Quantity:	5 mL

Product Overview | Figures | Recommendations | Documents | FAQ | Citations & References

Geltrex™ LDEV-Free Reduced Growth Factor Basement Membrane Matrix is a soluble form of basement membrane extracted from murine Engelbreth-Holm-Swarm (EHS) tumors and is free of viruses, including lactose dehydrogenase elevating virus (LDEV), sometimes found in this type of preparation. The major components of Geltrex™ matrix include laminin, collagen IV, entactin, and heparin sulfate proteoglycans. It is ideal for the promotion and maintenance of differentiated phenotypes in a variety of cell cultures including primary epithelial cells, endothelial cells, smooth muscle cells, and human induced pluripotent stem cells (iPSC). Geltrex™ matrix offers, on average, a 2-fold reduction in several growth factors. As a result, analysis of specific growth factor effects in applications requiring basement membrane extract can be carried out in a controlled and reproducible format.

Key Features of Geltrex™ LDEV-Free Reduced Growth Factor Basement Membrane Matrix:

- Free of lactose dehydrogenase elevating virus (LDEV) making it ideal for all types of cell culture and mouse *in vivo* applications
- Consistent protein concentration lot-to-lot helps reduce the need to screen lots
- Protocols for various applications, including tube formation assays, are available

Gain Reliability and Consistency in Your hESC Studies
Recent advances in processing EHS tumor cells have resulted in virus free basement membrane extracts. Every lot is tested by RT-PCR methods so you can now have confidence that every lot of Geltrex™ is virus free. Additionally, our consistent manufacturing process helps ensure a protein concentration with very little variation from lot-to-lot, averaging 15 mg/ml so you can have confidence in every purchase.

Investigate Angiogenesis with Validated Gibco™ Protocols
There are many applications for Geltrex™ LDEV-Free reduced growth factor basement membrane matrix, each requiring different thicknesses and concentrations. In general, a protein concentration of >5 mg/ml is used for differentiation studies of primary cells. Geltrex™ LDEV-Free reduced growth factor basement membrane matrix has been used to develop tube formation assay protocols using Gibco™ primary cells and specialty media. See this and other angiogenesis assay protocols

For Research Use Only. Not for use in diagnostic procedures.

Specifications

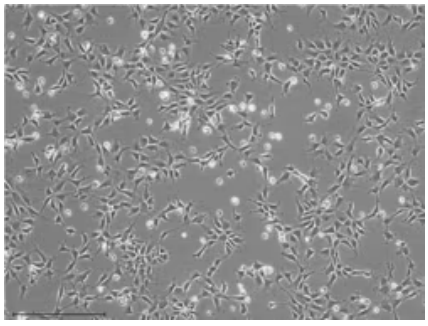
Cell Type	Variety of cultured cells, including primary epithelial cells, endothelial cells, smooth muscle cells, and human induced pluripotent stem cells (iPSC)
Classification	Reduced Growth Factor
Concentration	12 to 18 mg/mL
Culture Type	Adherent Cell Culture
Form	Frozen
Product Type	Basement Membrane Matrix
Serum Level	Serum-free

Without Additives	No Phenol Red
Endotoxin Level	Low
Format	Tube(s)
Product Line	Gibco™
Purity or Quality Grade	Cell Culture Grade
Quantity	5 mL
Shipping Condition	Dry Ice
Species	Mouse
Unit Size	5 mL

Contents & Storage

Store at -20°C.

Figures



NSCs grown on LDEV-free Geltrex matrix

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Safety Data Sheets

SDS

Scientific Resources

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Brochure: Matrices sourcebook

Product Information

Manuals

User Guide: Geltrex LDEV-Free Reduced Growth Factor Basement Membrane Matrix

Protocols

Growing Cells in Geltrex™ Reduced Growth Factor Basement Membrane Matrix

Frequently asked questions (FAQs)

What growth factors are reduced in the Geltrex LDEV-Free Reduced Growth Factor Basement Membrane Matrix (Cat. No. A1413202)?

Can differentiation of cells occur when using Gibco Geltrex Matrix? Can this be prevented?

Can I refreeze and reuse Geltrex LDEV-Free Reduced Growth Factor Basement Membrane Matrix after having used it in an experimental setup?

How do I characterize human embryonic stem (ES) cells?

Is it normal to see floating debris when pre-coating with Ready-to-Use Gibco Geltrex Matrix?

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Citations & References (14)

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Citations & References **Abstract**

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be useful to be able to form arrays of gels bearing ... More

Lumen Formation Is an Intrinsic Property of Isolated Human Pluripotent Stem Cells.

Authors: Taniguchi K, Shao Y, Townshend RF, Tsai YH, DeLong CJ, Lopez SA, Gayen S, Freddo AM, Chue DJ, Thomas DJ, Spence JR, Margolis B, Kalantry S, Fu J, O'Shea KS, Gumucio DL

Journal:

PubMed ID: 26626176

'We demonstrate that dissociated human pluripotent stem cells (PSCs) are intrinsically programmed to form lumens. PSCs form two-cell cysts with a shared apical domain within 20 hr of plating; these cysts collapse to form monolayers after 5 days. Expression of pluripotency markers is maintained throughout this time. In two-cell cysts, ... More

Epithelial-mesenchymal transitioned circulating tumor cells capture for detecting tumor progression.

Authors: Satelli A, Mitra A, Brownlee Z, Xia X, Bellister S, Overman MJ, Kopetz S, Ellis LM, Meng QH, Li S

Journal:

PubMed ID: 25516888

This study aimed to detect cell-surface vimentin (CSV) on the surface of epithelial-mesenchymal transitioned (EMT) circulating tumor cells (CTC) from blood of patients with epithelial cancers. ... More

Induced pluripotent stem cell-derived mesenchymal stem cell seeding on biofunctionalized calcium phosphate cements.

Authors: TheinHan W, Liu J, Tang M, Chen W, Cheng L, Xu HH

Journal:

PubMed ID: 24839581

Induced pluripotent stem cells (iPSCs) have great potential due to their proliferation and differentiation capability. The objectives of this study were to generate iPSC-derived mesenchymal stem cells (iPSC-MSCs), and investigate iPSC-MSC proliferati on and osteogenic differentiation on calcium phosphate cement (CPC) containing biofunctional agents for the first time. Human iPSCs ... More

Neural Differentiation of Spheroids Derived from Human Induced Pluripotent Stem Cells-Mesenchymal Stem Cells Coculture.

Authors: Song L, Tsai AC, Yuan X, Bejoy J, Sart S, Ma T, Li Y

Journal: Tissue Eng Part A

PubMed ID: 29160172

'Organoids, the condensed three-dimensional (3D) tissues emerged at the early stage of organogenesis, are a promising approach to regenerate functional and vascularized organ mimics. While incorporation of heterotypic cell types, such as human mesenchymal stem cells (hMSCs) and human induced pluripotent stem cells (hiPSCs)-derived neural progenitors aid neural organ development, ... More

14 total citations

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