Growing with the Gibco 3D workflow



gibco

The cell source is the basis of any 3D cell model The choice of cells dictates the biology of the model and the required materials

- needed to develop and maintain the model
- Different cell types can be used in monoculture or co-culture formats to produce a
- variety of 3D cell models



Designed to deliver reproducibility, Gibco cell culture reagents are infused with quality, customer-focused innovation, and

Gibco[™] cell culture reagents

service excellence from beginning to end. From the most basic formulations to the newest innovations, Gibco products offer exceptional quality, consistency, and performance - for results that you can count on every day. **Examples:** Gibco™ fetal bovine sera (FBS) products



- Gibco™ TrypLE reagents
 - Gibco™ HEPES buffering agents Gibco™ GlutaMAX products





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Gibco™ Dulbecco's Modified Eagle Medium (DMEM) formulations Gibco™ RPMI 1640 mediums Gibco™ Ham's F10 media Gibco™ L-15 StemFlex media

Gibco[™] basal, stem cell, specialty

Examples:

media

- Gibco™ Essential 8™ medium Gibco™ Essential 6™ medium
- Gibco™ KSR William's E medium Gibco™ serum free Media
- Gibco™ Human Large Vessel **Endothelial Cell Basal Medium** (formerly Medium 200)
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Examples: Gibco™ OncoPro Tumoroid **Cell Lines**

Gibco™ primary cells (hepatocytes, fibroblasts,

endothelial cells)



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inserts, etc To do this you will need cells, a particular culture vessel (plastics), scaffold or

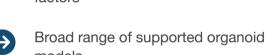
- Gibco[™] OncoPro[™] Tumoroid Culture Gibco[™] StemScale[™] PSC Suspension Medium Medium Kit



Streamlined media preparation and culture methods Adaptable for multiple cancer

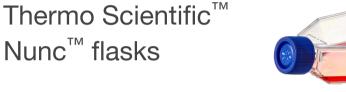
Optimized for patient derived tumoroid

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- Gibco[™] PeproGMP[™] recombinant proteins



High quality cytokines and growth





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Learn more

Learn more

Increases stem cell expansion capacity

Simplifies and streamlines cell culture

Creates reliable and consistent PSC

Maintains pluripotency across multiple

workflow

Examples:

Examples:

Gibco[™] Geltrex[™] Flex Basement Membrane Matrices

Quality you need in the volumes you

want. Available in (3) formats and sizes

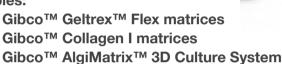
Geltrex™ Flex LDEV-Free Reduced

Geltrex™ Flex LDEV-Free Organoid Qualified Reduced Geltrex™ Flex LDEV-Free hESC Qualified Reduced

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Gibco[™] extracellular matrices

Provides structural support for 3D model formation



Thermo Scientific™ Nunc™ cell culture inserts Thermo Scientific™ Nunclon™ Sphera™ flasks Thermo Scientific™ Nunc™ UpCell surface

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- Given that it takes time to create a 3D cell model, you want to verify that the model is

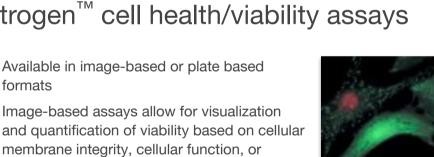


- discovery research and clinical trial research programs
- Invitrogen[™] cell health/viability assays Available in image-based or plate based formats

metabolic activity

health

Examples:



- Invitrogen™ PrestoBlue™ cell viability reagents Invitrogen™ LIVE/DEAD™ viability kits Invitrogen™ Dil stain Invitrogen™ CellEvent™ Caspase-3/7 Detection Reagents Invitrogen™ Image-iT™ hypoxia reagents
- **Engineer: Modify your created 3D cell model**
 - Invitrogen[™] Neon[™] NxT Electroporation

High efficiency & viability – transfect even challenging cell lines with strong results

Save time - simple 3-step workflow,

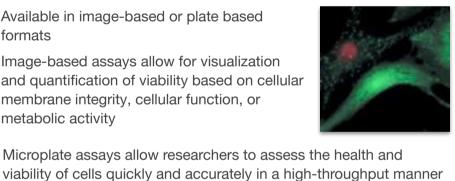
1- or 8-channel pipette, up to 96

densities, payloads, and protocols

reactions in <15 min

Examples:

System



Ion Torrent[™] Ion Ampliseq[™] Transcriptome Human Gene Expression Kit

research applications, including cancer research, inherited

disease research, infectious disease research, and

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Designed to simplify and streamline the NGS workflow by enabling the amplification of specific genomic

Ion AmpliSeq utilizes an ultrahigh

multiplex polymerase chain reaction

regions of interest

- (PCR) approach to selectively amplify targeted regions, allowing for highly efficient and sensitive sequencing of specific gene panels or custom targets Widely adopted in various translational research and clinical
- Learn more

pharmacogenomics research

Gibco[™] LV-MAX[™] Lentiviral **Production System**

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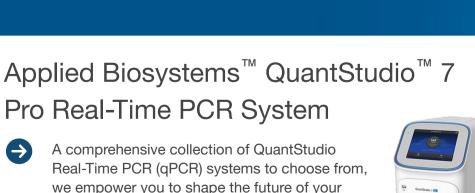
Easy, robust culture and transfection protocols Protect samples – reduce transfer loss and contamination risk Learn more

- At the heart of each Attune Flow Cytometer lies our revolutionary acoustic focusing technology, which utilizes sound waves to meticulously align cells within the flow cell. This innovative approach surpasses traditional hydrodynamic methods, resulting in faster processing speeds, exceptional data quality, and increased sample throughput
- Invitrogen[™] CRISPR-Cas9 and TALEN gene editing systems

Thermo Scientific[™] CellInsight[™] CX7 LZR

Pro High Content Screening Platform

- cytometers, multiplex analyzers to satisfy your scale and throughput needs



Invitrogen[™] EVOS[™] imaging systems

- slides, dishes, flasks, and microplates EVOS™ systems deliver publication-quality images and data in no time, over time, every time at an exceptional value
- Invitrogen™ EVOS™ M3000 System Invitrogen™ EVOS™ M5000 System Invitrogen™ EVOS™ M7000 System



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Learn more

budget

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flexibility, reliable performance, and ease of use for a variety of assays. Whether you need to measure absorbance, fluorescence, luminescence, time-resolved fluorescence

Learn more Thermo Scientific[™] Varioskan[™] LUX Multimode Microplate Reader

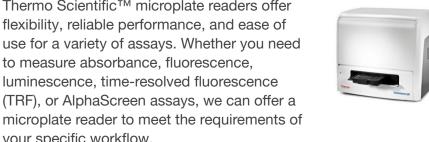
Develop and automate high-content

assays with 7-channel laser-based

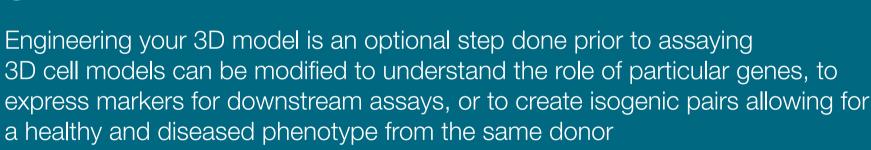
illumination for fluorescent imaging

Fully integrated live cell imaging using the

optional Invitrogen™ EVOS™ Onstage Incubator







Scalable suspension system - from 96 deep-well plate and beyond Serum-free - eliminating animal-origin components and associated risks

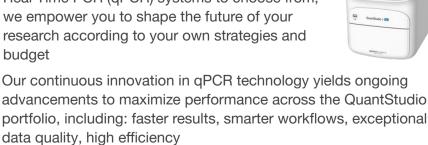
High titer - greater than 1 x 108 TU/mL

- **Imaging Systems** Learn more

Invitrogen[™] iBlot[™] Western Blot

Transfer and Invitrogen[™] iBright[™]

therapy, you need the tools to visualize and analyze the results We offer a range of microplate readers, imaging systems, qPCR instruments, flow



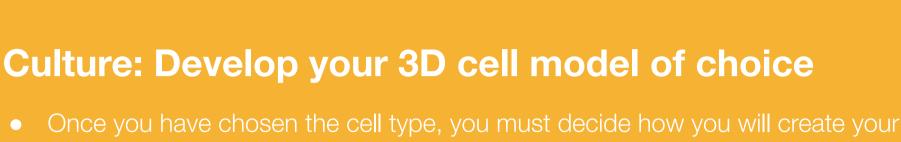
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Remarkably versatile and intuitive, EVOS™ microscopes are excellent for a broad range of imaging applications - including cell culture, time-lapse imaging, and high-resolution image capture from

Learn more

The Luminex platform represents a powerful combination of Luminex xMAP instruments and multiplex assays designed for the detection and

Gibco™ PBS solutions Learn more Thermo Scientific[™] Nunc[™] flasks





- indications and downstream assays
- Consistency and reliability backed by 35+ years of experience
- Nunc[™] flasks **Examples:**
- Characterize: Demonstrate cell health and relevancy
 - healthy and performs as it should before testing in the presence of a drug You can monitor changes in cells present at different timepoints, verify that characteristics do not change over time, or you can determine if a change in the protocol affects the health and function of your model

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Assays can be multiplexed to detect multiple measures of cell

Learn more



- Invitrogen[™] Attune[™] flow cytometers Discover the exceptional performance of the Attune Flow Cytometer family engineered to set a standard in flow cytometry.

Flexible optimization – adjust parameters for cell types.

- Invitrogen[™] Attune[™] NxT Flow Cytometer Invitrogen™ Attune™ CytPix™ Flow Cytometer Invitrogen[™] Attune[™] Xenith[™] Flow Cytometer
- Learn more Assay: Leverage 3D cell models for your distinctive research aim Once your developed model is ready to be tested in the presence of a drug or cell
 - Rapid data analysis with Thermo Scientific™ HCS Studio™ 2.0 Cell Analysis Software analyzes your images in real time
 - Thermo Scientific™ microplate readers offer
 - microplate reader to meet the requirements of your specific workflow.

measurement of RNA and proteins

- - **Examples:**
 - Luminex assay kits and instruments
- Learn more about 3D workflow solutions at thermofisher.com/gibco Intended use of the products mentioned varies. For specific intended use statements, please refer to the product label. © 2025 Thermo Fisher Scientific Inc. All rights reserved. All trademarks are the property of Thermo Fisher Scientific and its subsidiaries unless otherwise specified. Essential 6 and Essential 8 are trademarks of Cellular Dynamics International, Inc. Luminex is a trademark of Luminex Corporation. TaqMan is a trademark of Roche Molecular Systems, Inc., used under permission and license. INFG-11125070 0625

Ion Torrent[™] Oncomine[™] Comprehensive Assay v3 The Oncomine Comprehensive Assay Track development progress of your 3D v3 GX is a targeted, next-generation cell model sequencing (NGS) assay that enables the detection of relevant SNVs, CNVs, gene fusions, and indels from 161 Probe for gene markers representing cells at distinctive genes to help inform drug different stages of growth to help ensure proper development.