



# **CELL CULTURE**

Media and Additives for Improved Efficiency and Productivity in Cell Growth

# **CUSTOM & STANDARD MEDIA**

# Customize the Perfect Media for your Application.

Cell Culture Technologies develops and prepares a broad range of high quality, research-grade customized culture media. Currently, over 300 varieties are offered. Almost any formulation can be produced.

Custom media is available in minimum quantities of 3L or as Liquid Concentrate Kits.



#### **STANDARD MEDIA**

- ChoMaster® for Chinese Hamster ovary cells
- Hektor™ for 293 cells
- InVitrus<sup>™</sup> for kidney-derived cells
- TurboDoma® for hybridomas
- SteMaxOne<sup>™</sup> for human mesenchymal stem cells

Cell Culture Technologies also provides standard, chemically defined media for routine maintenance and cryopreservation of cells and for mass cell cultivation and production purposes.

# **FEATURES:**

- Free of proteins, peptides, and complex additives
- Free of animal-derived components
- Exclusively made of small molecules characterized by their CAS- and EINECS registry numbers

See all of our Cell Culture tools at www.bocascientific.com

# **HAPPY CELL ASM**

### Revolutionize Cell Culture in 3D: Permanently Suspend Cells.

**Happy Cell ASM** (Advanced Suspension Medium) is a unique, low viscosity cell culture reagent that supports cell growth in suspension, enabling the formation and growth of 3D multi-cellular structures.

# **FEATURES:**

- Permanently suspends cells
- Enables easy labeling, washing, and dosing of cells
- Allows for more efficient sample recovery and analysis
- Enhances viability of primary cells
- Automation friendly
- Easy to use and cost-effective



Formulated in DMEM, MEM, or RPMI. A **Starter Kit** is available featuring Inactivation Solution for enhanced recovery of cultured 3D microtissues.

#### **APPLICATIONS**

- Oncology & Chronic Disease Models
- Stem Cell Culture
- Microfluidics
- Primary Cell Culture & Expansion
- Drug Discovery
- Flow Cytometry
- Microscopy & High Content Imaging
- Raman
  Spectroscopy



3D structure formation in Happy Cell ASM over 5 days.



7 day viability of Jurkat cells cultured simultaneously in Happy Cell ASM and complete culture medium. Cellular viability was significantly increased in cells cultured in Happy Cell ASM versus those cultured in standard culture medium.



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# BRICLONE

### Improve Efficiency in Hybridoma Production.



#### **COMPETITOR ANALYSIS**

BriClone was compared to two competitors as a supplement for post-fusion hybridoma production by assessing fusion efficiency. BriClone significantly increased the number of positive wells identified with hybridoma clones and surpassed both competitors.



Fusion efficiency is expressed as a percentage of wells in 48-well plates with positive hybridoma clones following fusion, relative to BriClone positive control (thawed overnight). Error bars indicate standard deviation (n=3). All supplements were used at their recommended concentrations.

(1.) >40% positive wells, P≤0.05; (2.) >100% positive wells, P≤0.01. Biological triplicate experiments performed; Negative control indicates no supplement added.

**BriClone Hybridoma Cloning Additive** is an additive for the cloning medium used in the post-fusion stages of hybridoma cell cloning, specially developed to overcome common problems in the post- fusion period associated with feeder cells.

# **FEATURES:**

- Eliminates the need for feeder cells
- Prevents batch variation
- Screened for mycoplasma contamination
- Intended for use when cloning under conditions of limiting dilution

Feeder cells have many disadvantages, such as batch to batch variation, depletion of nutrients by feeder cells, and timeconsuming preparation. With BriClone, you can avoid these problems and greatly improve the efficiency of hybridoma production.



# **AUTO-INDUCTION MEDIA**

# Streamline Steps in Induction of Protein Expression.

#### How does Auto-Induction Media increase efficiency?

With conventional IPTG-induction, cells are grown until a desired density is reached and then protein expression is induced by the user adding IPTG to the medium.

Auto-Induction Media is **supplemented with an optimized ratio of glucose and alpha lactose** as carbon sources. This system promotes high cell density and induces protein expression at the proper stage, so the user does not need to monitor cell density and add IPTG.

This greatly reduces the amount of work needed from the user.



**Auto-Induction Media** (AIM) from GRiSP Research Solutions provides efficient, convenient induction of protein expression under the control of IPTG-inducible promoters in *E. coli*.

With AIM, expression starts at a high cell density automatically, so researchers can simply inoculate and leave the culture as is. This method requires far less attention from the user than conventional IPTG-induction.

# **ADVANTAGES:**

- No cell density monitoring needed induction starts automatically at high cell density
- Automatic induction of protein expression - no need to add IPTG as it is already included in the medium
- Saves money, time, and work no need to buy IPTG, monitor the culture, or take samples

#### **AVAILABLE MEDIA**

AIM are supplied as dehydrated powder for the preparation of media without trace elements.

- Terrific Broth AIM
- Super Broth AIM
- LB Broth AIM
- 2xYT Broth AIM



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# **Protect Your Cell Cultures with e-Myco Mycoplasma Detection Kits!**



Mycoplasma is a common contaminant of cell cultures that affects various parameters, leading to unreliable results. Testing for mycoplasma is an essential quality control measure.

e-Myco PCR Premix kits are designed to detect mycoplasma and determine the species. Each detection tube contains all components required for PCR, so the reaction begins by simply adding the sample. With strong sensitivity, these kits provide reliable results.

### **FEATURES:**

- Detects 200+ species
- Convenient PCR
  premix format
- Strong sensitivity with multiple internal controls
- High stability and reproducibility
- Determines mycoplasma species
- Results obtained in only a few hours

For more cell culture media and reagents, visit us at www.bocascientific.com

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