



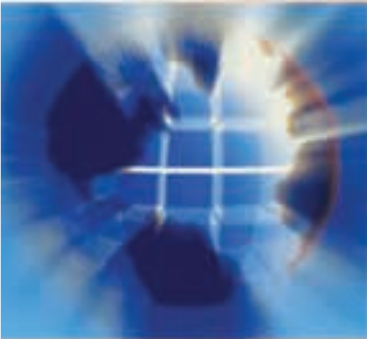
Meridian
Life Science,® Inc.



**Trusted Partner for
World-Class Antibody Production**

**Cell Culture and Ascites:
Monoclonal Antibody Production**

CELL CULTURE ANTIBODY PRODUCTION



Meridian Life Science®, Inc. has the experience necessary for cell culture-based monoclonal antibody production to meet your quality and critical timing requirements. We can optimize the production process for maximum yield, serum-free production and production of high quality antibodies in a wide range of buffers and concentrations.

Cell Culture Production Services

Pilot Run Option:

- Small scale run for yield determination
- Custom production and optimization
- Specifications: Process and purity testing
- Fixed production pricing after pilot run

Production:

- CL1000 Flasks (small)
- WaveBag® (medium)
- CelliGen® Bioreactor (large)
- Media optimization
- Serum free media option

Harvest and Purification:

- Purification (optional) by protein A/G, DEAE and custom methods
- Concentration
- Formulation and buffer exchange

QC Testing and Release:

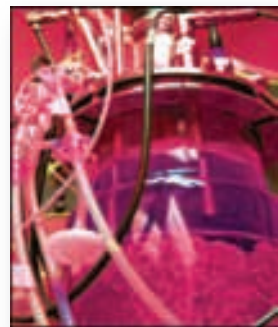
- Purity by SDS-PAGE and Activity by ELISA
- Protein Concentration
- Sterility and Mycoplasma testing
- Test Method Validation
- Fill and finish



Large Scale Cell Culture Production

Large Scale Production:

- CelliGen Bioreactor for large scale production
- Up to 80 gram of antibody per run
- Unique continuous perfusion process
- Faster and more consistent production than Hollow Fiber
- Less labor to set up and less prone to contamination
- Better control of cell growth parameters
- Pilot run offered at 2 gram level
- Turnaround time from 3 to 12 weeks
- Competitive bulk pricing



Our quality system is compliant with applicable device GMPs enabling adaptation of your production/manufacturing process to be conducted under GMPs.

ASCITES ANTIBODY PRODUCTION



Meridian Life Science's world-class ascites production facility is the ideal partner for high quality, large scale, and cost effective outsourcing of your ascites production and hybridoma maintenance needs. Contact us with your monoclonal antibody production requirements and allow us to exceed your expectations!

Ascites Production Services

Pilot Run Option:

- Small scale pilot
- Yield determination
- Production method optimization
- Fixed production pricing after pilot run

Production:

- Creation and maintenance of cell bank
- Proprietary production methodology
- High antibody yield
- Lot-to-lot consistency

Purification:

- Pooling and filtration
- Purification (optional) via Protein A/G or DEAE
- Custom purification methods available

QC Testing and Release:

- Biuret method for protein concentration
- TITAN GEL® High Resolution Electrophoresis
- ELISA testing available upon request
- Control chart provided upon request



Large Scale Ascites Production

Let us earn your trust by working with your hybridoma to optimize a production process that consistently produces high quality monoclonal antibodies that meet your needs.

Large Scale Production:

- Newly expanded facility with 55,000 mice capacity
- Large scale production: Up to 5,000 mice per lot
- Multi-gram quantities of antibody
- Pilot run offered at 20 mice level
- Fast turnaround time
- Competitive bulk pricing

TITAN GEL® is a registered trademark of Helena Laboratories.



Meridian Life Science (MLS), with over 25 years of experience producing monoclonal antibodies, we have become a trusted partner and sole source provider of custom monoclonal antibodies for some of the world's largest immunodiagnostic companies.

Benefits of Working with MLS

- Commitment to High Quality:
 - All manufacturing facilities are ISO 9001 certified
 - All manufacturing facilities are EC1774/2002 approved for shipments to Europe
 - Cell culture, purification and testing facilities operate under Quality Systems based on 21 CFR 820, 210, and 211
 - Test method validation and control charts can be provided
- Experienced technical support and one-on-one customer interaction with MLS scientists
- Flexibility to meet your needs
- Effective small pilot lot to establish production parameters
- Large scale production using ascites or cell culture
- Large scale purification and custom processing



Recombinant Protein and Viral Antigen Production

Our cell culture production capabilities are not limited to monoclonal antibodies. For over 25 years, we have been producing standard and custom viral antigens as well as recombinant proteins in cell culture. Experience the difference a trusted partner like Meridian Life Science can make for your protein production project.

- Core cell culture and virology expertise
- Large scale production of viral antigens and recombinant proteins:
 - Wave Bioreactor®
 - Spinner Flasks
 - Roller Bottles
- Wide range of purification options
- QC testing, release, and production documentation
- Production documentation to fit your regulatory needs



Wave Bioreactor® is a registered trademark of GE Healthcare Bioscience BioProcess Corporation.

ISO 9001:2008 Certified and EC1774/2002 Approved Facility

www.MERIDIANLIFESCIENCE.COM



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For more information contact:
60 Industrial Park Road • Saco, ME USA 04072
888.530.0140 • 207.283.6500
Fax: 207.283.4800
E-mail: info@meridianlifescience.com