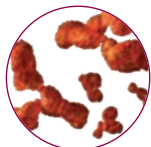


## MONOCLONAL ANTIBODY CONTRACT MANUFACTURING

Meridian Life Science, Inc. (MLS) is an industry leader in the commercial production of critical raw materials for diagnostic manufacturers. MLS has vast expertise in the manufacture and purification of monoclonal antibodies using a wide array of protein purification methods at quantities ranging from research (mg) to commercial (g) scale.



### OVERVIEW OF SERVICES

- Immunization and hybridoma services
- Cell line rescue and subcloning
- Master and working cell bank production
- Dual site storage
- Conversion from ascites to cell culture
- Fixed-fee pilot studies
- Scale-up optimization
- Yield optimization
- Purification by Protein A/G, SEC, IEC, HIC, and other chromatography techniques
- Validation lots and commercial scale manufacturing



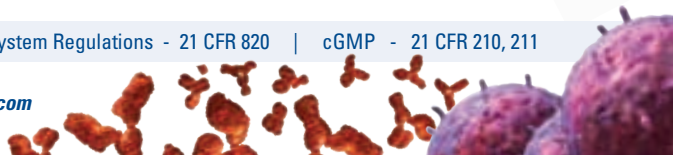
### IN VIVO / ASCITES CAPABILITIES

- Dedicated facility with 55,000 mice capacity
- Up to 5,000 mice per lot
- Multiple strains available



### IN VITRO / CELL CULTURE CAPABILITIES

- Multiple culture systems
  - CL-1000 flasks
  - Spinner Flasks
  - Roller Bottle (smooth and ribbed)
  - Cell Factories
- Adaptation to growth in serum free media





### **PILOT TO COMMERCIAL MANUFACTURING**

*In Vitro* and *In Vivo* production to gram scale

Clone development services

Upstream and downstream process development

Scale-up, optimization and pilot studies

Fast turnaround time

Lot-to-lot consistency

Competitive bulk pricing

25+ years manufacturing regulated diagnostic raw materials



### **ANALYTICAL TESTING**

Protein concentration (UV/Vis, BCA)

SDS-PAGE

Silver staining

HPLC

Western blot

Cell density/viability

Sterility

Mycoplasma

ELISA

Custom assay development and testing

**Meridian Life Science, Inc.**

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207.283.6500 • 888.530.0140

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MLS-MACMCARD 06/12/11