

CONTRACT R&D AND cGMP MANUFACTURING SERVICES

Meridian Life Science, Inc. (MLS) is a premier provider of products and services for the IVD and biopharmaceutical industries. Products include challenge viruses, bulk native and recombinant antigens, antibodies, and immunoassay blockers. Services include clinical cGMP biomanufacturing for vaccines, viral challenge materials, virus-like particles, vectored gene therapies, and recombinant proteins in all expression systems.

MLS provides contract R&D, process development, scale-up, and downstream processing services to support IVD and biopharmaceutical production and has produced >15 clinical grade biotherapeutics and vaccines in our cGMP facility in Memphis, TN. MLS possesses a mature Quality System with experience supporting clinical products manufactured in our validated cleanroom facility in accordance with cGMP (21 CFR 210/211).



UPSTREAM

Cell and Virus Banking

Expression Systems:

- Mammalian (CHO, Vero, NS0, etc.)
- Bacterial (*E.coli*)
- Yeast (*P.pastoris*, *S.cerevisiae*, *H. polymorpha*)
- Baculovirus in Sf9
- Egg-based Virus Production
- Vaccinia & Adeno

Cell Culture: Flasks, Spinners, Rollers, Cell Factories, WAVE Bioreactors™



DOWNSTREAM

ÄKTA FPLC systems for SEC, Affinity, Ion exchange, HIC

Dialysis, ultracentrifugation, tangential flow

Expanded bed chromatography

Centrifugation, gradient centrifugation

Microfluidization, freeze/thaw, chemical lysis

Analytical Method Development and Testing

Formulation and Fill



BIOPHARMACEUTICAL EXPERIENCE

COMPLETED PROJECTS

- RSV Challenge Stock
 - In Vero | HEp-2 cells
- NIAID Experimental Vaccines Contract
 - 2 Dengue | 4 RSV | 1 PIV3
- Rotavirus Vaccine
- Rhinovirus Challenge Stock
- Divalent VLP Norovirus Vaccine
- Lentivirus Vector for Preclinical and Clinical
- Parvovirus B19 VLP Vaccine
 - Available for Licensure



CLINICAL PHASE I /II PRODUCTION:

- Viral Vaccines
 - Recombinant, Live, Attenuated, Challenge
 - VLPs, Oncolytic, & Therapeutic Vaccines
- Gene Therapy Vectors
- Recombinant Proteins (BEVS)

SERVICES

