Mammalian GMP Manufacturing Overview
Cytovance® Biologics is a leading contract development and manufacturing provider of both mammalian and microbial service offerings to the biopharmaceutical industry.

**R&D Services** include cell line development using Freedom® CHO-S® (Life Technologies), microbial strain development using GeneGPS™ Codon Optimization Technology (DNA2.0) and Cytovance® Biologics’ Keystone™ Expression System, research cell bank production, process development, process optimization using statistical Design-of-Experiments (DoE), technology transfer, scaled-down model development and process characterization using a QbD framework.

Each customers’ project is customized to match the required scope and clinical phase. In-house mammalian and microbial platform processes enable efficient movement from development to commercialization.

A strong **Analytical Development** team is integrated into R&D Services and ensures a seamless transition into Quality Control for in-process and release testing. Core competencies include method development, method transfer, method optimization, method qualification, preformulation development, and product characterization. For early phase customer needs Cytovance offers Manufacturability Assessments for antibodies, other mammalian expressed proteins and Expression Feasibility Studies for microbial expressed proteins.

Since it’s inception 10 years ago in Oklahoma City Cytovance® Biologics has successfully manufactured a wide array of biological products for our customers in the U.S., European, and Asian markets.

Cytovance® Biologics are your partners for mammalian and microbial process development and cGMP biopharmaceutical manufacturing from the bench to commercialization.
Mammalian cGMP Manufacturing

Cytovance® Biologics provides a state-of-the-art full service manufacturing solution. Our cGMP manufacturing services include:

- cGMP Cell Banking
- Cell Culture (Stainless Steel and Single Use Bioreactor Systems)
- Purification
- Fill/Finish

Cytovance has considerable experience in transferring processes into and out of its facilities. We have very successfully demonstrated our ability to develop and transfer full processes or drop in process optimization steps to our customers or third party facilities.

Cytovance operates out of four facilities encompassing over 100,000 sq.ft. of cGMP manufacturing cleanrooms, development laboratories, QC laboratories, cGMP warehousing, and applicable support services.