

ANTIGENS

- Viral antigen large scale production:
 - Native and recombinant.
- Multiple grades and concentrations.
- Native antigens include:
 - ToRCH panel: Toxoplasma, Rubella Virus, CMV, Herpes Simplex Virus I/II;
 - Hepatitis A Virus, Epstein-Barr Virus, Measles (Rubeola) Virus, Mumps Virus, Respiratory Syncytial Virus, Rotavirus, and Varicella Zoster Virus.



- Recombinants from Yeast:
 - HIV-1 gp41, HIV-1 p24, HIV-2 gp36, HBV Core, HCV Core, HSV-1 gD, HSV-1 gG, HSV-2 gG, CK-MB I/II, CK-MM I/III, CK-BB, Human EGF.
- Over 300 additional infectious disease antigens available.
- R&D and Custom Services:
 - Cell and viral banking.
 - Cell culture and media optimization.
 - Experts in growing broad range of viruses.
 - Production, purification, and testing.
 - Test method development.
 - Flasks, roller bottles, cell factories, Wave® technology, fermentation.
 - Recombinants produced in yeast.

ANTIBODIES

- Monoclonal and polyclonal antibodies.
- Over 5000 products.
- Paired antibodies for immunoassay development.
- Assay development reagents.
- Protein A detection kit.



- Antibody contract production:
 - Cell culture and ascites.
 - Custom processing and purification.
 - Master and working cell banking.
 - Proprietary techniques for maximizing yield.
 - On-site colonies of BALB/c and CAF1 mice.

BLOCKERS

- TRU Block™ - Active Blocker
- Animal IgG:
 - Mouse IgG, Goat IgG, Sheep IgG, Rabbit IgG, Rat IgG, etc.
- Animal Sera:
 - Mouse, Goat, Sheep, Rabbit, Guinea Pig, etc.
- Custom Blockers available.



- General Assay Blocking Buffers:
 - Reduce non-specific interactions for better signal to noise ratio.
 - Different formulations for ELISA, lateral flow and Western blot.

All products can be shipped with CoA upon request.

ISO 9001:2008 CERTIFIED • USDA LICENSED FACILITY • CONFORMS TO QSR • EC 1774/2002

Wave is a Registered Trademark of GE Healthcare Bioscience BioProcess Corp.

UPSTREAM PROCESSING

EXPRESSION SYSTEMS

- Experience with:
 - Mammalian cell culture;
 - Insect cell culture; and
 - Yeast fermentation
- Cell line development.
- Plasmid transfection.
- BEVS expertise.

**MASTER & WORKING
CELL & VIRAL BANKS**

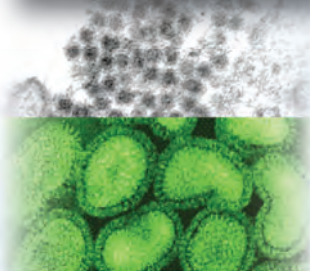
- Cell Banks: VERO, FrHK, HeLa, hybridoma, Sf9, HF, CHO, MRC-5, and others.
- Viral Banks: Baculovirus, CMV, EBV, HAV, HSV, Measles, Mumps, RSV, Rotavirus, Rubella, Vaccinia, VZV, and others.

**CELL CULTURE
OPTIMIZATION & PILOT
PRODUCTION**

- Flasks, spinner flasks, roller bottles, cell factories, Wave Bioreactor® (100L).
- Media optimization.
- Analytical test method development and validation.
- Cell culture optimization (MOI, Viability, Harvest).
- Viral quantitation and infectivity assays (Plaque, TCID50, FFA).

PRODUCT FOCUS:

Viral Vaccine and
Viral Challenge Stocks
Gene Therapy Vectors
(AAV, HSV, Vaccinia, etc.)
Oncolytic Viral Vaccines



DOWNSTREAM PROCESSING

**CLINICAL FILL &
FINISH**

- Fill and Finish Capacity:
 - Clinical: up to 2500 vials.
 - Non-clinical: up to 5000 vials.

**PURIFICATION &
FORMULATION**

- ÄKTA Pilot™ for: SEC, Affinity, Ion exchange, HIC.
- Dialysis, ultracentrifugation, tangential flow.
- Expanded bed chromatography for microfluidized/unfiltered cell lysates and perfused media.
- Centrifugation and gradient centrifugation.
- Microfluidization, freeze/thaw, chemical lysis.
- Formulations experience for VLP and viral vaccines.

cGMP PRODUCTION

- Multiple cGMP compliant clean rooms for Phase I/II clinical products.
- Uninfected and infected eukaryotic cell culture suites.
- Class 10,000 purification area, and Class 100 downdraft hood.
- Dedicated ÄKTA systems, centrifuges, microfluidizer.
- Dedicated HVAC Systems.
- Cleaning validation.
- Validated facility.

QUALITY:

Proven track record of
clinical production.
Mature quality systems.
CMC regulatory support
for your IND.



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