

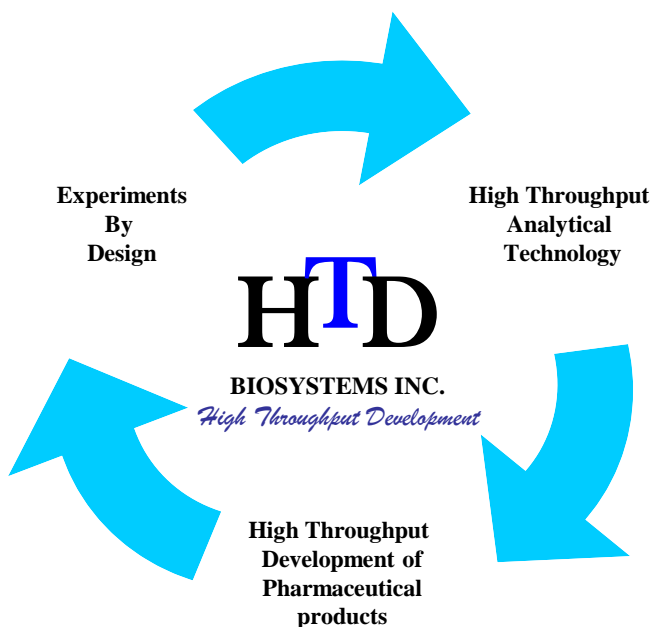
HTD Biosystems

High Throughput
Development Laboratory



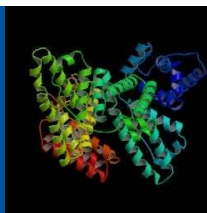
Accelerating Development for Optimal Results

Contract Drug Development & Analytical Services



3197 Independence Drive, Livermore, CA 94551, Tel. 510.367.0528,
www.htdcorp.com

Our Services



We provide services in biopharmaceutical drug development for parenteral & pulmonary delivery. Our services include:

Preformulation

Using multivariable statistical design, we perform studies to develop liquid and lyophilized formulations.



Formulation

Formulation of proteins, peptides, vaccines and small molecules using DOE & iFormulate™ (www.iformulate.net)

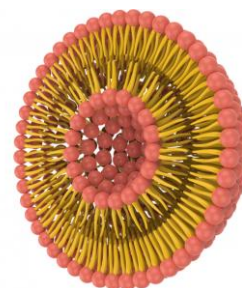


Lyophilization

Development of a robust lyophilization cycle that can be easily tech-transferred to a production scale. Lyo optimization.

Nanotechnology & Drug Delivery

Lipid Nanoparticles (LNP) & Liposomes

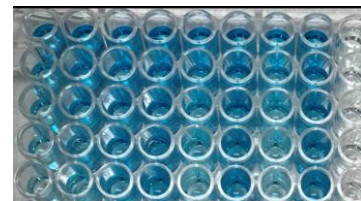


Protein Analysis

- Protein Screening (nDSF & DLS)
- Protein Aggregation, Particle Size (DLS)
- Sub-Visible Particles (Flow Imaging)
- Protein Integrity (Chip Bioanalyzer)
- Protein Content (UV Spectroscopy)
- Protein Conformation & Stability (nDSF, DSC)

Other analysis

- Solid-state Characterization (DSC)
- Moisture Content (Karl Fischer)
- Reconstitution Rate
- Viscosity & Osmolality Measurements
- ELISA



Our Services



Aseptic fill-finish (GLP)

GLP manufacturing, fill-finish and testing in biosafety cabinet (class 100)

Capping and Labeling

HTD provides capping and labeling services.

Vaccine Development

Development of lipid-based vaccines, alum-based vaccines, Nucleic acid-NLP vaccines and freeze-drying of vaccines to enhance stability. Manufacturing of pilot lots of vaccine for GLP studies, process scale up and tech transfer to GMP site. Manufacturing liposomal vaccines using extrusion.

Compatibility studies

We conduct compatibility studies with IV bags, tubing, controlled safety transfer devices (CSTDs) and excipients.

Vaccine analytical Services

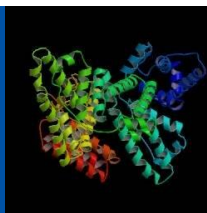
- Protein-adjuvant interaction
- Particle Size
- ELISA Immunoassay

Consulting

We provide consulting services in all CMC related issues for parenteral drug development, development of biologics and vaccine formulation development.



A Contract Laboratory for Pharmaceutical Development



Our Partners



Contact us

Dr. Rajiv Nayar (CEO)

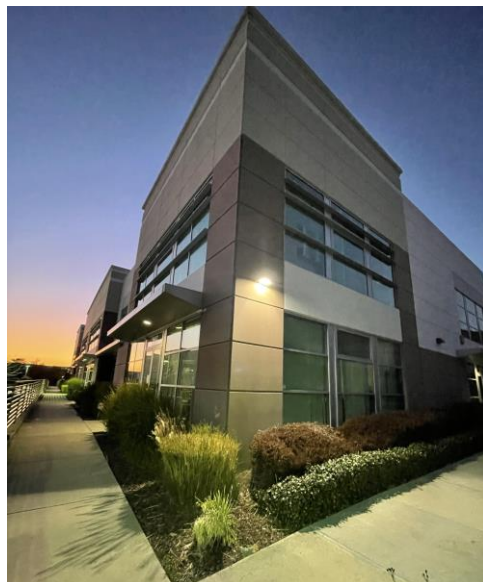
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