



Vaccine Development

Driving Vaccine Breakthroughs: Full-Scale Support at Every Step

At Veeda Group, we offer comprehensive portfolio of services for vaccine development specializing in accelerating vaccine candidates through their life cycle, providing integrated early development, preclinical, clinical, and bioanalytical support tailored for each stage.

Inactivated Vaccines

mRNA Vaccines

Virus-like Particles (VLP)

Live-Attenuated Vaccines

Viral Vector Vaccines

Polysaccharide/Glycoconjugate Vaccines



This is How We Support Your Vaccine Development Journey



Structural Characterization

- **Primary & Higher-Order Structure**
Advanced techniques (NMR, CD, FTIR) for structural analysis
- **Impurity Analysis**
LC-MS for detecting process and product impurities
- **Antigen-Antibody Binding**
Real-time kinetics using SPR and Biacore



Functional Characterization

- **Formulation & Adjuvant Studies**
Optimizing vaccine formulations and adjuvants
- **Cellular Responses**
Immune activation assays for T-cell/B-cell response
- **IVRP**
In vitro relative potency assays



Bioprocess Development

- **Production of Antibodies**
Development for microbial pathogen targeting
- **Critical Reagent Generation**
Production and qualification of key reagents



Clinical Immunology & Serology

- **Antibody Estimation**
Immunoassays (ELISA & MSD) for antibody estimations (Titer/Concentration)
- **Cytokine/Biomarker Evaluation**
Multiplex assays for immune response monitoring
- **Neutralization Assays**
Virus neutralization and bactericidal activity assays



Preclinical Toxicology

- **Toxicity Studies**
Single/repeat dose, reproductive, and safety studies
- **Mutagenicity & Carcinogenicity**
Risk assessments for mutagenicity and cancer potential

Full-Spectrum Vaccine Clinical Trial Services: From Early to Late-Phase Trials

- **Trial Design & Execution**
Expertise in developing trial protocols across Phases I-III, focusing on both efficacy and safety
- **Kit Supply & Transport**
Global Clinical trial supplies and sample management
- **Site Monitoring & Volunteer Recruitment**
Global clinical site network for rapid trial initiation and efficient volunteer recruitment
- **Safety Monitoring & Bioanalytical Services**
Comprehensive monitoring of vaccine safety and immune response, utilizing advanced bioanalytical methods
- **Regulatory Guidance**
Expertise in global submissions and compliance with USFDA, EMA, MHRA, ANVISA, WHO, and more. With unmatched experience in navigating India's regulatory system, we ensure streamlined approval timelines of 3-3.5 months

State-of-the-Art Infrastructure for High-Quality Vaccine Research

- **Multi-mode Plate Readers and Liquid Handlers:**
Immuno analytical assays for estimating humoral responses
- **Flow Cytometry & ELISpot:**
Advanced assays for cellular immune responses
- **Luminex and MSD:**
Multiplex Assays

Extensive Expertise in Diverse Vaccine Development Projects:

- **COVID-19 Vaccine Study**
IgG titer analysis, ELISPOT assays, and FACS testing in large-scale clinical trials
- **Polio Vaccine Study**
Successful Phase I safety and immunogenicity trials in healthy adult subjects
- **Other Vaccine Studies:**
Influenza, Dengue, PCV-14, TCV, HPV, and more, supporting both preclinical and clinical development

Your Partner in Global Vaccine Development

With a global presence and extensive regulatory expertise, Veeda Group is your trusted partner in advancing vaccine candidates through all stages, from preclinical research to market approval.



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Excellence
In Everything