



## GLP TOXICOLOGY SERVICES

Toxicology studies are required to determine the adverse effects of drug candidates and the effect of dosage on toxicity. To assess toxicity, Noble offers a wide range of GLP and non-GLP toxicology services.

- Exploratory Toxicology
- General Toxicology
- Immunotoxicology and Immunogenicity
- Development and Reproductive Toxicology
- Toxicokinetics

With extensive experience in vaccine and drug development, Noble Life Sciences' staff is dedicated to helping you complete your project in a timely and efficient manner.

### SERVICE OPTIONS

- Dose range finding
- Single and repeat dose
- Acute, subchronic and chronic
- Local tolerance
- Biodistribution
- Ocular and skin irritation evaluations
- Median Lethal Dose (LD50)
- Maximum Tolerated Dose (MTD)
- No Observable Effect Level (NOEL)/No Observable Adverse Effect Level (NOAEL)

In addition to GLP toxicology services, Noble Life Sciences provides all aspects of the GLP process from design to regulatory support of your IND, IDE or PMA FDA submission.

### OPERATIONS

- FDA-inspected GLP facility
- Extensive set of standard operating procedures that cover all aspects of animal care, animal procedures, equipment operation and facility operation
- Operates in accordance with the Animal Welfare Act, the PHS Policy on Humane Care and Use of Laboratory Animals (OLAW) and the NRC Guide for the Care and Use of Laboratory Animals



- Fully accredited by the Association for the Assessment and Accreditation of Laboratory Animal Care



### ROUTES OF ADMINISTRATION

We offer a variety of drug administration options including:

- |                       |                   |
|-----------------------|-------------------|
| ▪ Capsule             | ▪ Intranasal      |
| ▪ Continuous infusion | ▪ Intraperitoneal |
| ▪ Dermal              | ▪ Intravenous     |
| ▪ Dietary admixture   | ▪ Oral gavage     |
| ▪ Intradermal         | ▪ Subcutaneous    |

### SPECIES OPTIONS

- |                     |                  |
|---------------------|------------------|
| ▪ Mice              | ▪ Sheep          |
| ▪ Rats, Cotton Rats | ▪ Goats          |
| ▪ Ferrets           | ▪ Rabbits        |
| ▪ Guinea pigs       | ▪ Domestic swine |
| ▪ Hamsters          | ▪ Mini pigs      |

### OUR STAFF

- Board-certified veterinarians, PhD and Masters-level scientists as well as AALAS-certified technicians and technologists
- Quality assurance professionals and veterinarians with over 25 years of experience in the industry
- Scientists with over 15 years of GLP experience