

Den Bosch, The Netherlands

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Charles River's site in Den Bosch, the Netherlands, is a large *in vivo* and *in vitro* facility that offers a full-service portfolio in environmental toxicology, toxicology and bioanalysis. The site provides registration and regulatory affairs support for global notifications and registrations of chemicals, biocides, agrochemicals and pharmaceuticals, including all REACH testing.

Background

- Founded as NOTOX B.V. in 1983
- Acquired by WIL Research in 2005
- Acquired by Charles River Laboratories in 2016

Laboratories and Facilities

- GLP and non-GLP study conduct
- Species: mouse, rat, guinea pig, rabbit, cat, dog, minipig
- 58 animal rooms
- Laboratories
 - Analytical chemistry
 - Bioanalytical chemistry (small molecule)
 - Necropsy
 - Fetal evaluation
 - Histology
 - Clinical pathology
 - *In vitro* toxicology
 - Genetic toxicology
 - *In vivo* and *in vitro* metabolism
 - Environmental toxicology

Staff

- Approximately 520 employees
- Approximately 400 scientists and/or scientific staff (with degrees including PhD, MSc, ERT and DVM)

Service Areas/Study Types

- General toxicology (single dose, subchronic, chronic and carcinogenicity)
- Inhalation toxicology (acute nose-only)
- Developmental and reproductive toxicology
 - Fertility
 - Developmental toxicity
 - Pre- and postnatal development
 - Extended one-generation and multigeneration
- Juvenile toxicology
- Discovery toxicology
- High-throughput PK (HTPK)
- Neurotoxicology
- Target animal safety studies
- Analytical services
 - Bioanalytical chemistry (nonclinical and clinical samples)
 - Analytical chemistry
 - Physicochemical properties



EVERY STEP OF THE WAY

Service Areas/Study Types (Continued)

- Immunotoxicology
- Pathology
 - Clinical pathology and flow cytometry
 - Clinical chemistry
 - Immunohistochemistry
 - Necropsy
 - Histology and histopathology
 - Neuropathology
- Vaccines
- Genetic toxicology (*in silico*, *in vitro* and *in vivo*)
- Environmental toxicology and environmental fate
- PCR (GLP and non-GLP)
- DMPK (*in vitro* and *in vivo*)
- Endocrine disruptor screening (environmental, *in vitro* and *in vivo*)
- Regulatory support for registration of compounds
 - Industrial chemicals
 - Agrochemical
 - Biocides
- *In vitro* alternative testing
- Phototoxicity (*in vitro* and *in vivo*)
- Environmental risk assessment of human pharmaceuticals and veterinary drugs
- Pharmacokinetics
- Physicochemical properties

Compliance, Certifications, Accreditations and Professional Affiliations

Charles River's Den Bosch facility operates in compliance with the requirements of the following regulatory agencies or accredited organizations:

- Organization for Economic Co-operation and Development (OECD)
- U.S. Food and Drug Administration (FDA)
- Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC International)
- EU Reference Laboratory for alternatives to animal testing

Quality and Process Initiatives

- Lean Six Sigma program
- On-site IT support
- Online data collection and integrated instrumentation
- Excellent regulatory compliance history

Humane Care Initiative

Charles River is a worldwide leader in the humane care of laboratory animals. We work hand-in-hand with the scientific community to understand how living conditions, handling procedures and stress play an important role in the quality and efficiency of research.