

Suven Discovery Research

Discovery Toxicology Services

***Aggressive Timelines together with high Scientific Quality
Decision making for NCE progression***





Wherein Tox studies are conducted on new chemical entities in the early stage of discovery. Tox data would be generated in extremely rapid timelines at the same time with highest quality and scientific integrity for your decision making of molecule progression.

4-Day Tox in 14 Days

7-Day Tox in 17 Days

Discovery Toxicology Capabilities



Toxicity studies

- Acute toxicity studies in rodents
- 4-Day / 7-Day repeat dose discovery tox studies in rodents
- Repeat Dose (14 / 28 days) toxicity studies in rodents
- *In vivo* & *In vitro* Genotoxicity studies
 - Bacterial reverse mutation test (Ames Test)
 - In vitro* chromosomal aberration test
 - In vivo* and *in vitro* micronucleus test
 - In vivo* chromosomal aberration test
- Clinical Pathology Services
- Histopathology Services
- Toxicokinetic studies
- Formulation analysis
- Bioanalysis



Discovery Toxicology - Facilities



Animal Facility

- Vivarium spreading over 6000 sft
- Double corridor system
- HEPA filtered 100% clean air supply
- Individually ventilated cages
- Necropsy room
- State of art instruments



Clinical Pathology Lab

Histopathology Lab

Documentation Room

Well Equipped Genotox Lab

Spacious Archives



Discovery Toxicology – Good Research Practices



- **SOPs**

Planning and initiation of study, live phase of toxicity study, necropsy and organ collection, clinical and histopathology, training of personnel, archiving of study data and specimens, equipments

- **Formats**

- **Logbooks**

- **Individual training record**

- **Equipment**

Equipment ID & List, installation reports, master schedule for calibration, quality controls, responsible person for each equipment

- **Test item and Chemical**

Record for receipt, storage, utilization & disposal

- **List of studies**

- **List of protocols**

- **List of reports**

- **Quality assurance**



Advantages with Suven Discovery Toxicology

Aggressive timelines together with high scientific excellence and quality data are critical in drug discovery. Having years of experience in discovery research, Suven Tox offers quality results of preclinical toxicity studies. The Tox division is well equipped to handle toxicity studies with rigor timelines to offer results of 4-day tox in 14 days and 7-day tox in 17 days (from day 1 of treatment to submission of the draft report).

- ❖ *Expertise in discovery research*
- ❖ *Cost effective*
- ❖ *Rapid turnaround time with quality results*
- ❖ *Flexibility in study conduct as per Sponsor's requirement*
- ❖ *Follow GLP principles*



Suven Discovery Tox expertise and contribution to progression of NCEs

Identified phospholipidosis in early stage of discovery by conducting 4-day tox

Identified potential platform toxicity

Identified potential back-up compounds which had good margin of safety

Contributed towards critical decision making in drug discovery of several Pharma and Biotech companies in India, Europe and USA

Discovery Toxicology – Suven Publications



Journal of Herbs, Spices & Medicinal Plants

Publication details, including instructions for authors and subscription information:

<http://www.tandfonline.com/loi/whsm20>

Inhibitory Effects of Cuminum cyminum on the Mutagenicity of Direct and Indirect Mutagens in Bacterial Reverse Mutation Assay

Ramakrishna Nirogi^a, Ravichandra Bhadravathi Vedamurthy^a, Vinod Kumar Goyal^a, Jahara Begum Palle^a, Santosh Kumar Pandey^a, Santanu Jana^a, Kailas S. Ingle^a, Anil Gothi^a & Pinakin Soni^a
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Published online: 14 Feb 2014.

Drug and Chemical Toxicology, 2011, 1–5, Early Online
© 2011 Informa Healthcare USA, Inc.
ISSN 0148-0545 print/ISSN 1525-6014 online
DOI: 10.3109/01480545.2011.627865

informa
healthcare

RESEARCH ARTICLE

Mutagenicity and clastogenicity evaluation of tacrine by Ames and micronucleus assays

Mohmad Sadik Mulla, Ravichandra Bhadravathi Vedamurthy, Santanu Jana, Santosh Kumar Pandey, Vinod Kumar Goyal, and Ramakrishna Nirogi

Scand. J. Lab. Anim. Sci. 2012 Vol. 39 No. 1

Spontaneous Congenital Hydrocephalus in Sprague Dawley Rat

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Nirogi et al., IJPSR, 2014; Vol. 5(4): 1525-1532.

E-ISSN: 0975-8232; P-ISSN: 2320-5148

IJPSR (2014), Vol. 5, Issue 4

(Research Article)



INTERNATIONAL JOURNAL
OF
PHARMACEUTICAL SCIENCES
AND
RESEARCH



Received on 29 October, 2013; received in revised form, 19 December, 2013; accepted, 10 March, 2014; published 01 April, 2014

WHAT SUITS BEST FOR ORGAN WEIGHT ANALYSIS: REVIEW OF RELATIONSHIP BETWEEN ORGAN WEIGHT AND BODY / BRAIN WEIGHT FOR RODENT TOXICITY STUDIES

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