



Laboratory for Nanoprodut Testing and Measurement
Center for Micro/Nano Science and Technology,
National Cheng Kung University

TEST REPORT

Report Date: 18th March, 2014
Report Number: 1402-03-2R2

Sample Name: Nanocomposite Material


Test Item: Acute Oral Toxicity

Client Address: (O) 5F.-3, No.40-2, Sec. 1, Minsheng N. Rd., Guishan Dist.,
Taoyuan City, 333, Taiwan

Date Received: 24th February, 2014

The experiments were conducted by the Laboratory for Nanoprodut Testing and Measurement at the Center for Micro/Nano Science and Technology, National Cheng Kung University. This report contains 11 pages, excluding the cover page. Report results will be voided if not used in its entirety.




Laboratory Head


Approved Signatory

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c. Amount of Rat Food Intake Measurement

During the test, the amount of rat food intake is measured once per week.

d. Autopsy on Dead Animals

If any SD rat dies during the test period, autopsy should be performed immediately for record. If necessary, histological section and examination of organs with pathological changes should be carried out for record.

E. Statistical Analysis

The test results are expressed as “mean \pm standard deviation”. Results were compared between groups by parametric analysis using t test. Differences were considered significant when the p-value was < 0.05 .

F. Data Storage

All of the data are stored in file cabinets or as electronic files at the Center for Micro/Nano Science and Technology. Authorized clients can access the data within three years.

IV Test Result

1. Amount of Rat Food Intake (see Appendix 1):

There was no obvious difference between the experiment group and the control group.

2. Weight of SD Rats (see Appendix 2):

There was no obvious difference between the experiment group and the control group.

3. Gross Inspection for Pathological Changes (see Appendix 3):

At the end of the experiment, euthanasia and autopsy were performed, and no gross pathological changes of internal organs were revealed in each group.

4. Occurrence of Pathological Changes and Mortality in SD Rats (see Appendix 4):

During the test, there were no other pathological changes and death occurred in both groups.

Conclusion:

After giving single dose of the Nanocomposite Material to the SD rats for 14 days, there were no pathological changes of internal organs observed in the experiment group. There was no difference in weight gain and rat food intake between the two groups. In gross inspection, no other pathological changes were discovered in both groups. Accordingly, 5000 mg/kg of the Nanocomposite Material did not cause any acute oral toxicity reaction in SD rats. The acute oral

