Haskell Lab. File

MR-10-50

E. I. du Pont de Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine

HASKELL LABORATORY REPORT NO. 105-66 MR NO. 10

aterial Tested: Lead Nitrate [Pb $(NO_3)_2$] - Merck and Company Haskell No.: 4599

aterial Submitted by: Henry Sherman
Haskell Laboratory Other Codes: Lot.No. 32215

ORAL LD_{50} TEST

rocedure: The test material as a 40% aqueous solution, was administered by intragastric intubation to four groups of ten oung adult ChR-CD male rats at doses of 6200, 5600, 5000, and 4200 mg/kg, respectively. Survivors were killed 14 days l ater. The oral LD_{50} was calculated from the mortality data using the method of Litchfield and Wilcoxon.*

esults:

Dose mg/kg	Mortality Ratio	Clinical Signs	LD_{50}
6200	9/10	Anorexia, distended abdomens, weight losses for 3-6 days after dosing, deaths up to 4 days after dosing	5000 mg/kg or 3130 mg/kg based on Pb content
5600	8/10		
5000	5/10		
4200	2/10		

Litchfield, J. T., Jr., and F. Wilcoxon, J. Pharm. Exp. Therap. 96:99 (1949)

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Summary: The oral LD_{50} of $Pb(NO_3)_2$ for male rats is 5000 mg/kg with 95% confidence limits of 5440 and 4596 mg/kg. Based on the Pb content, the oral LD_{50} is 3130 mg/kg with 95% confidence limits of 3405 and 2877 mg/kg.

Report by: Henry Sherman
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