

Scientific Associates

1474 S. VANDEVENTER AVE. . ST. LOUIS 10, Mo.

December 11, 1953

CERTIFICATE OF ANALYSIS

C-25AM

SUBJECT -The Acute Oral Toxicity (LD_{50}) of Aroclor 1242 Per Rats.**TEST CONDUCTED FOR -**

Monsanto Chemical Company, St. Louis, Missouri.

Monsanto Project No.: SA-19

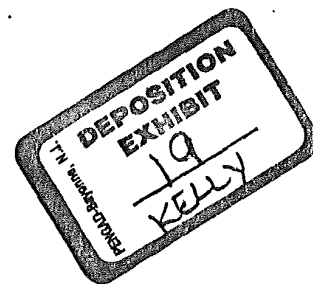
Monsanto Sample No.: Lot No. 166

EXPERIMENTAL PROCEDURE -

The Acute Oral Toxicity (LD_{50}) was found by the introduction of measured single doses of undiluted Aroclor into the stomachs of Sprague Dawley strain albino rats by means of a rubber catheter attached to a hypodermic syringe.

After the toxicity range was found, groups of animals were dosed at levels designed to blanket the toxicity range thereby supplying data for calculation of the LD_{50} which was done according to a modification of the method of Bliss (Quart. J. Pharm. and Pharmacol., 11, 1938).

Selected animals from those receiving a lethal dose were autopsied and macroscopic examination made of the viscera. The data are given in Table I.



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T A B L E 1

THE ACUTE ORAL TOXICITY (LD₅₀)
 OF ARCOUR LIME FOR RATS

Animal No.- Sex	Weight Grams	Dose ml./Kg.	Fate
1- Female	185	2.25	Survived
2- Female	170		Survived
3- Female	190		Survived
4- Male	230		Died
5- Male	215		Died
6- Female	200		Survived
7- Male	210		Died
8- Male	235		Survived
9- Male	240		Died
10- Female	195		Survived
11- Female	135	3.75	Survived
12- Male	245		Survived
13- Female	220		Died
14- Male	215		Died
15- Male	235		Survived
16- Female	130		Survived
17- Male	190		Survived
18- Male	225		Died
19- Female	210		Survived
20- Female	230		Survived
21- Female	175	4.25	Died
22- Male	220		Survived
23- Male	240		Died
24- Male	245		Died
25- Female	200		Survived
26- Female	185		Survived
27- Female	190		Survived
28- Male	230		Died
29- Male	220		Survived
30- Male	250		Survived
31- Male	195	4.75	Died
32- Female	210		Died
33- Female	180		Died
34- Female	175		Died
35- Male	220		Died
36- Male	230		Survived
37- Male	200		Survived
38- Male	240		Died
39- Female	185		Died
40- Female	200		Died
41- Female	175		Survived
42- Female	180		Died
43- Female	190		Died
44- Female	175		Died

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TO: Monsanto Chemical Company

St. Louis, Missouri

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DISCUSSION -

The LD₅₀ was calculated to be 4.15 milliliters per kilogram with fiducial limits of 4.02-4.36 milliliters per kilogram. Survival time for those animals receiving a lethal dose varied from 12-54 hours.

Lethargy developed in the majority of animals a few hours after dosing. There was also moderate diarrhea.

At autopsy, the liver was dull red with a greenish hue while the spleen was abnormally dark. The kidneys appeared normal by macroscopic examination.

SUMMARY -

The LD₅₀ of Aroclor 1242 was found to be 4.15 milliliters per kilogram with lower and upper limits of 4.02-4.36 milliliters per kilogram.

SCIENTIFIC ASSOCIATES

Fred M. Younger

BY: FRED M. YOUNGER

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