*Scientific Associates*

1474 S. Vandeventer Ave. - St. Louis 10, Mo. December 11, 1953

# CERTIFICATE OF ANALYSIS

[illegible] -

The Acute Oral Toxicity ($LD_{50}$) of Aroclor [illegible] for Rats.

[illegible] -

[illegible] Chemical Company, St. Louis, Missouri.

[illegible] Project No.: [illegible]

[illegible] Sample No.: Lot No. 166

[illegible] -

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

After the toxicity range was found, groups of animals were dosed at levels [illegible] to [illegible] the toxicity range thereby [illegible] data for [illegible] of the [illegible] which was done according to [illegible] of the [illegible] of [illegible] and [illegible], [illegible].

[illegible] were [illegible] a [illegible] were [illegible] and [illegible] made of the [illegible]. The data are given in Table I.

This is a confidential report which may be used when requested by [illegible] but is not to be used in any form of advertising without written [illegible]

INSULTANTS TO THE FOOD, CHEMICAL AND PHARMACEUTICAL

MONS 060055

TO: [illegible] Chemical Company
St. Louis, [illegible]
Scientific Associates Certificate of Analysis -- Page 2 ([illegible])

TABLE I

THE [illegible] ORAL [illegible] ([illegible])
OF [illegible] 1942 FOR [illegible]

| [illegible] | Weight [illegible] | [illegible] | Note |
|---|---|---|---|
| 1- Female | [illegible] | [illegible] | Survived |
| 2- Female | [illegible] | | Survived |
| 3- Female | [illegible] | | Survived |
| 4- [illegible] | [illegible] | | Died |
| 5- [illegible] | [illegible] | | Died |
| 6- Female | [illegible] | | Survived |
| 7- [illegible] | [illegible] | | Died |
| 8- [illegible] | [illegible] | | Survived |
| 9- [illegible] | [illegible] | | Died |
| 10- [illegible] | [illegible] | | Survived |
| 11- [illegible] | [illegible] | | Survived |
| 12- [illegible] | [illegible] | | Survived |
| 13- [illegible] | [illegible] | [illegible] | Died |
| 14- [illegible] | [illegible] | | Died |
| 15- [illegible] | [illegible] | | Survived |
| 16- [illegible] | [illegible] | | Survived |
| 17- [illegible] | [illegible] | | Survived |
| 18- [illegible] | [illegible] | | Died |
| 19- [illegible] | [illegible] | | Survived |
| 20- [illegible] | [illegible] | | Survived |
| 21- [illegible] | [illegible] | | Died |
| 22- [illegible] | [illegible] | | Survived |
| 23- [illegible] | [illegible] | | Died |
| 24- [illegible] | [illegible] | | Died |
| 25- [illegible] | [illegible] | | Died |
| 26- [illegible] | [illegible] | | Died |
| 27- [illegible] | [illegible] | | Died |
| 28- [illegible] | [illegible] | | Died |
| 29- [illegible] | [illegible] | | Died |
| 30- [illegible] | [illegible] | | Died |
| 31- [illegible] | [illegible] | | Died |
| 32- [illegible] | [illegible] | | Died |
| 33- [illegible] | [illegible] | | Died |
| 34- [illegible] | [illegible] | | Died |
| 35- [illegible] | [illegible] | | Died |
| 36- [illegible] | [illegible] | | Died |
| 37- [illegible] | [illegible] | | Died |
| 38- [illegible] | [illegible] | | Died |
| 39- [illegible] | [illegible] | | Died |
| 40- [illegible] | [illegible] | | Died |
| 41- [illegible] | [illegible] | | Survived |
| 42- [illegible] | [illegible] | | Died |
| 43- [illegible] | [illegible] | | Died |
| 44- [illegible] | [illegible] | | Died |

MONS 060056

To: Monsanto Chemical Company
St. Louis, Missouri
Scientific Associates Certificate of Analysis -- Page 3 (12-11-53)

DISCUSSION -

The $LD_{50}$ 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 10-24 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 $LD_{50}$ 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

The material in this report is to be used in development of the product and may be given to responsible sales [illegible] but it is not to be used by [illegible] The [illegible] material [illegible] No [illegible] of [illegible] Requests [illegible] to be referred [illegible] the Medical Department in St. Louis for reply.

— Monsanto Chemical Company

MONS 060057