Scientific Associates

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February 19, 1962

CERTIFICATE OF ANALYSIS

SUBJECT -

The Minimum Lethal Dose of Pydraul F-9 when fed orally to New Zealand White Rabbits.

Monsanto Project No. M-28

TEST CONDUCTED FOR -

Monsanto Chemical Company, St. Louis, Missouri.

EXPERIMENTAL PROCEDURE -

The Minimum Lethal Dose (M.L.D.) of Pydraul F-9 was found by the introduction of measured single doses of the undiluted compound into the stomachs of healthy mature New Zealand white rabbits by means of a rubber catheter.

The animals were observed occasionally for outward signs of toxicity and those receiving a lethal dose were autopsied and the internal organs examined macroscopically.

The data are given in Table I.

RESULTS -

The Minimum Lethal Dose of Pydraul F-9, when fed orally to New Zealand white rabbits, was between 0.45 and 0.67 milliliters per kilogram of body weight.

SCIENTIFIC ASSOCIATES

Fred M Younger

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MONS 062153

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To: Monsanto Chemical Company, St. Louis, Mo.
Scientific Associates Certificate of Analysis (2-12-51)

T A B L E I

THE MINIMUM LETHAL DOSE OF "PYDRAUL F-9" WHEN FED ORALLY TO NEW ZEALAND WHITE RABBITS

Animal Number	Animal Weight Kg.	Dose/Kg. of Body Weight Ml.	Fate -- Length of Survival
1	2.3	9.1	Died -- 4th Day
2	2.0	7.7	Died -- 3rd Day
3	2.4	6.5	Died -- 5th Day
4	2.1	4.8	Died -- 3rd Day
5	1.7	3.5	Died -- 3rd Day
6	1.9	2.4	Died -- 5th Day
7	2.0	1.4	Died -- 4th Day
8	1.8	1.0	Died -- 5th Day
9	2.1	0.67	Died -- 8th Day, 15.0% Weight Loss
10	1.6	0.45	Survived -- 8.5% Weight Loss, later regained.
11	2.2	0.33	Survived -- 6.0% Weight Loss, later regained.
12	1.9	0.20	Survived -- 7.5% Weight Loss, later regained.

DISCUSSION -

Pydraul F-9 was relatively slow acting on rabbits when the M.L.D. of 0.45 to 0.67 milliliters per kilogram of body weight is considered. Animals receiving a lethal dose ate and acted normally for the first 48 hours but developed mild lethargy and loss of appetite after this time. There was some diarrhea at feeding levels above 2.4 milliliters per kilogram of body weight.

Rabbit No. 9, which died on the 8th day, suffered a 15% weight loss as a result of lowered food consumption. The survivors, Rabbits No. 10, 11, and 12, also temporarily lost weight for the same reason.

Macroscopic examination of the internal organs of those animals fed a lethal dose showed a mottled effect on the livers in two rabbits. Otherwise, there were no specific abnormalities noted.

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