

Scientific Associates

474 S. VANDEVENTER AVE. - ST. LOUIS, MISSOURI

April 17, 1951

CERTIFICATE OF ANALYSIS

SUBJECT -

The Minimum Lethal Dose of Hydral F-9 when fed orally to laboratory rats.

Monsanto Product

TEST CONDUCTED -

Monsanto Chemical Company, St. Louis, Missouri.

EXPERIMENTAL PROCEDURE -

The Minimum Lethal Dose of Hydral F-9 was found by the introduction of measured doses of the undiluted product into the stomachs of laboratory rats by means of a rubber catheter.

The animals were observed occasionally for outward signs of toxicity. Those animals which died of a lethal dose were autopsied and the internal organs examined macroscopically. The data are given in Table I.

RESULTS -

The Minimum Lethal Dose of Hydral F-9 when fed orally to mature laboratory rats was 0.45-0.67 milliliters per kilogram of body weight. By comparison, the report of 2-19-51 showed an M.L.D. of 0.45-0.67 milliliters per kilogram of body weight for New Zealand White rats.

SCIENTIFIC ASSOCIATES

Fred M. Younger

BY: FRED M. YOUNGER

DSW 586436

This is a confidential document and should be used when requested by physicians and health officials, but is not to be used in any form of advertising without written permission.

CONSULTANTS TO THE CHEMICAL AND PHARMACEUTICAL INDUSTRIES

STLCOPCB4091770

THE MINIMUM LETHAL DOSE OF PYDRAUL F-9 WHEN FED
ORALLY TO LABORATORY RATS

No. - Sex	Animal Weight Kg.	Body Weight Kg.	Fate
Male	0.28		Survived - No loss in weight
Male	0.31		Survived - Maximum Weight Loss 6%
Female	0.26		Survived - Maximum Weight Loss 5%
Male	0.29		Survived - Maximum Weight Loss 9%
Female	0.24		Survived - Maximum Weight Loss 18%
Female	0.22		Survived - Maximum Weight Loss 15%
Female	0.20		Survived - Maximum Weight Loss 21%
Male	0.30		Died (27 Days) - Wt. Loss at Death 19%
Male	0.32		Survived - Maximum Weight Loss 26%
Female	0.23		Died (41 Days) - Wt. Loss at Death 20%
Female	0.25		Died (38 Days) - Wt. Loss at Death 29%
Male	0.32		Died (33 Days) - Wt. Loss at Death 42%
Male	0.29		Died (30 Days) - Wt. Loss at Death 40%
Male	0.31		Died (11 Days) - Wt. Loss at Death 26%
Male	0.33		Died (8 Days) - Wt. Loss at Death 22%

ON -

able indicates, animals which received a lethal dose of Pydraul F-9 survived
long as 41 days. The weight loss ranged up to 42% and in all cases
is a general pattern of anorexia, loss of appetite and severe jaundice.

sy, the surface of the body appeared normal but the skin was yellow all
through and the coat had a yellowish tinge.

receiving doses of 3.4 milliliters per kilogram of body weight and over
a kangaroo-like posture after dosing. The underside of the
s well as the area around the spots became red and nearly all the hair
from these spots. The redness persisted as long as the animal survived.

D. level is probably 8.0 milliliters per kilogram of body weight.
on for the wide range in response, one animal died at 10.15 milliliters
gram while another lived at 10.15 milliliters per kilogram, showing that
point of a slow acting agent such as Pydraul F-9 is not always
defined.

DSW 586437