

AMES ASSAY FOR MUTAGENICITY

COMPOUND: Diethyl 3,3-Dimethyl-2-oxo-1,4-cyclopentanedicarboxylate

SOURCE: Lorillard - Organic Chemistry

LORELLARD NO.: A123

LOT NO.: OR67-13

DATE RECEIVED: unknown

TESTED: 3/18/81-4/8/81

REPORTED: 4/14/81

INVESTIGATOR(S): H. S. Tong & A. A. Poole

NOTEBOOK PAGE: BC19-25

SIGNATURE(S):

H. S. Tong

A. A. Poole

TOXICITY (% SURVIVAL)

	50	80	100
CONCENTRATION (mg/ml)		.025	

SOLVENT: ☒ DMSO; ☐ WATER

☐ OTHER

5. TYPHIMURIUM

CONTROL REVERTANTS PER PLATE (0.05 ml SOLVENT)

TA1538		TA100		TA98			
(-15-9)	(+15-9)	(-15-9)	(+15-9)	(-15-9)	(+15-9)	(-15-9)	(+15-9)
9.67	14.00	118.00	127.00	9.00	21.00		

COMPOUND (μg/plate)

REVERSION RATE (TEST REVERTANTS/CONTROL REVERTANTS PER PLATE)

25		.76		.87		.65	
12.5	1.10	1.12	1.07	.82	.78	.71	
6.25		.52		.88		.86	

POSITIVE CONTROL (μg/plate)

2-AMINOANTHRACENE

4.0	.72	3.07	.98	4.26	.22	20.10	
2.0	1.24	2.86	.76	3.63	.67	18.81	
Streptozotocin							
1.0	6.41	31.14	1.60	3.11			
0.5	2.28	12.29	1.08	1.99			

CONCLUSION: This compound is judged non-mutagenic in this test system.

Copies to the following: H. J. Minnemeyer

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