

N44 – MWM Reversal Learning (distance traveled)

Study Number: C11042B-01	Test Compound: Triphenyl phosphate	Date: 05 May 2026
DTTID: 104-016-004-000-6	CAS Number: 115-86-6	Time: 11:18:38 AM
Study Type: TOX with Perinatal Exposure	DTXSID: DTXSID1021952	
Species/Strain: Rat/Harlan Sprague Dawley		

MWM Reverse Platform Distance Traveled in Male Rats (PND 79-85)

Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
Model: Main effects (dose, day) and interactions				
Dose	1.40	3	89	0.247
Day	48.11	2	157	≤0.001
Interaction	0.70	6	163	0.652
Model: Main effects (dose, day)				
Dose	1.43	3	93	0.240
Day	46.87	2	157	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Day				
12	7.61 ± 0.898[19]	6.56 ± 0.940[20]	5.63 ± 0.686[20]	6.32 ± 0.861[20]
13	3.62 ± 0.335[19]	4.54 ± 0.629[20]	3.20 ± 0.277[20]	3.75 ± 0.416[20]
14	3.24 ± 0.284[19]	3.39 ± 0.382[20]	2.97 ± 0.288[20]	2.87 ± 0.292[20]

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MWM Reverse Platform Distance Traveled in Female Rats (PND 79-85)

Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
Model: Main effects (dose, day) and interactions				
Dose	0.99	3	86	0.403
Day	37.38	2	158	≤0.001
Interaction	1.55	6	162	0.166
Model: Main effects (dose, day)				
Dose	0.69	3	90	0.562
Day	35.81	2	158	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Day				
12	7.11 ± 1.074[19]	7.50 ± 0.976[20]	7.52 ± 1.103[20]	6.75 ± 0.682[20]
13	4.85 ± 0.695[19]	3.48 ± 0.436[20]	4.97 ± 0.441[20]	4.90 ± 0.610[20]
14	4.05 ± 0.418[19]	3.39 ± 0.439[20]	3.54 ± 0.297[20]	4.02 ± 0.515[20]

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LEGEND

Data represent mean \pm SEM [sample size] of session distance travelled (cm) to find and escape onto a hidden platform placed in a different quadrant in the Reversal Learning phase of the Morris Water Maze task, as detected using AnyMaze™ video capture system.

Sprague Dawley (Hsd:Sprague Dawley SD) rats were exposed through the dam from gestation day 6 to weaning at postnatal day (PND) 28 and tested as young adults (PND 79-85).

Data were assessed for homogeneity of variance and normality using model residual plots and Shapiro-Wilk tests.

Data was log transformed for analysis due to violation of the assumptions of normality and homogeneity of variance.

Median session responses (4 trials per session) were log transformed and analyzed using repeated measures analysis of variance (RMANOVA) with an autoregressive error structure, with dose and day as factors.

In the Model selection results indicate main effects of dose or day and interactions. In the absence of a significant dose by day interaction, the dose effect is independent of day. In the case of a significant interaction between dose and day, comparisons were conducted within each day.

The denominator degrees of freedom (df) was computed by Kenward-Roger approximation method.

All p-values were determined as two-tailed tests.

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