N43 – MWM Reversal Learning (latency)

Study Number: C11042B-01
DTTID: 104-016-004-000-6
Study Type: TOX with Perinatal Exposure
Species/Strain: Rat/Harlan Sprague Dawley

Test Compound: Triphenyl phosphate
CAS Number: 115-86-6
DTXSID: DTXSID1021952

Date: 05 May 2026
Time: 11:05:23 AM

MWM Reverse Platform Latency 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	1.84	3	86	0.146
Day	56.18	2	154	≤0.001
Interaction	0.52	6	160	0.790
Model: Main effects (dose, day)				
Dose	1.89	3	90	0.136
Day	55.07	2	154	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Day				
12	31.98 ± 4.049[19]	27.16 ± 3.922[20]	24.21 ± 3.761[20]	26.35 ± 3.698[20]
13	14.84 ± 1.321[19]	17.26 ± 2.376[20]	12.34 ± 0.917[20]	14.92 ± 1.615[20]
14	13.42 ± 1.053[19]	13.33 ± 1.451[20]	11.71 ± 1.106[20]	11.43 ± 1.013[20]

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MWM Reverse Platform Latency 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	0.49	3	86	0.687
Day	45.96	2	157	≤0.001
Interaction	1.56	6	162	0.161
Model: Main effects (dose, day)				
Dose	0.30	3	90	0.829
Day	43.99	2	158	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Day				
12	27.28 ± 4.528[19]	29.25 ± 3.929[20]	28.64 ± 4.297[20]	24.44 ± 2.562[20]
13	17.41 ± 2.649[19]	13.03 ± 1.511[20]	17.55 ± 1.703[20]	17.78 ± 2.434[20]
14	14.32 ± 1.541[19]	12.79 ± 1.750[20]	12.46 ± 0.973[20]	13.62 ± 1.599[20]

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LEGEND

Data represent mean ± SEM [sample size] of session latency (sec) 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 AnyMazeTM 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.

** END OF REPORT **