

N32 - MWM - Hidden Platform (latency)

Study Number: C11042B-01

Test Compound: Triphenyl phosphate

Date: 11 May 2026

DTTID: 104-016-004-000-6

CAS Number: 115-86-6

Time: 12:46:20 PM

Study Type: TOX with Perinatal Exposure

DTXSID: DTXSID1021952

Species/Strain: Rat/Harlan Sprague Dawley

MWM Hidden Platform Latency in Male Rats (PND 70-80)

Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
Model: Main effects (dose, day) and interactions				
Dose	7.78	3	125	≤0.001
Day	51.16	6	449	≤0.001
Interaction	0.62	18	477	0.889
Model: Main effects (dose, day)				
Dose	6.87	3	135	≤0.001
Day	50.46	6	448	≤0.001

Model: Main Effects with No Interactions

		Dose Group (ppm)			
		0	30	1000	3000
Day					
3	55.04 ± 6.575[19]	42.41 ± 5.825[20]	43.01 ± 5.300[20]	45.74 ± 4.869[20]	
4	35.41 ± 5.171[19]	24.75 ± 2.619[20]	26.66 ± 3.366[20]	30.66 ± 3.760[20]	
5	27.95 ± 3.903[19]	16.14 ± 2.312[20]	16.59 ± 1.938[20]	16.11 ± 2.205[20]	
6	23.16 ± 3.656[19]	13.06 ± 1.363[20]	13.24 ± 1.108[20]	12.86 ± 0.961[20]	
7	20.27 ± 2.614[19]	12.65 ± 1.423[20]	14.17 ± 1.588[20]	12.14 ± 0.948[20]	
8	19.97 ± 3.017[19]	11.47 ± 1.082[20]	14.43 ± 1.699[20]	12.21 ± 0.919[20]	
9	14.37 ± 1.610[19]	13.11 ± 1.716[20]	12.27 ± 1.396[20]	12.46 ± 1.242[20]	
Dose effect					
p-value		≤0.001	0.002	0.003	

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MWM Hidden Platform Latency in Female Rats (PND 70-80)

Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
Model: Main effects (dose, day) and interactions				
Dose	0.50	3	143	0.685
Day	59.64	6	446	≤0.001
Interaction	0.87	18	478	0.621
Model: Main effects (dose, day)				
Dose	0.49	3	152	0.688
Day	57.81	6	446	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Day				
3	44.28 ± 5.062[19]	54.49 ± 5.727[20]	45.99 ± 4.957[20]	43.20 ± 4.588[20]
4	26.11 ± 3.254[19]	36.12 ± 4.711[20]	27.51 ± 2.769[20]	25.76 ± 2.772[20]
5	22.10 ± 2.680[19]	18.75 ± 2.190[20]	16.87 ± 1.639[20]	19.75 ± 2.319[20]
6	15.09 ± 1.678[19]	13.37 ± 1.118[20]	14.43 ± 1.391[20]	17.48 ± 3.616[20]
7	15.25 ± 2.066[19]	13.39 ± 1.766[20]	15.62 ± 1.759[20]	15.38 ± 1.446[20]
8	13.81 ± 1.549[19]	13.57 ± 1.132[20]	13.28 ± 1.363[20]	16.08 ± 1.438[20]
9	13.70 ± 2.261[19]	10.62 ± 0.765[19]	12.54 ± 1.251[20]	14.95 ± 1.031[20]

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LEGEND

Data represent mean \pm SEM [sample size] of session latency (sec) to find and escape onto a hidden platform in 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 70-80).

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.

Pairwise comparisons of dose groups to the vehicle control (0 ppm) were conducted using the Dunnett-Hsu multiple comparison test.

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

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

One female animal in the 30 ppm group day 9 was removed as an outlier.

**** END OF REPORT ****