N14 – Motor Activity – Rearing

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: 10:34:41 AM

Open Field Rearing in Male Rats (PND 29-35)

Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
Model: Main effects (dose, epoch) and interactions				
Dose	0.39	5	155	0.855
Epoch	69.12	5	557	≤0.001
Interaction	0.59	25	588	0.942
Model: Main effects (dose, epoch)				
Dose	0.60	5	186	0.702
Epoch	70.15	5	578	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)					
	0	30	100	300	1000	3000
Minutes						
5	101 ± 6.4[19]	96 ± 5.2[20]	98 ± 5.1[20]	93 ± 5.3[20]	101 ± 7.0[20]	86 ± 5.3[20]
10	79 ± 7.8[19]	67 ± 6.2[20]	73 ± 7.2[20]	73 ± 7.8[20]	83 ± 6.8[20]	75 ± 4.6[20]
15	49 ± 4.7[19]	46 ± 5.2[20]	52 ± 7.4[20]	50 ± 6.2[20]	54 ± 7.1[20]	52 ± 7.3[20]
20	49 ± 6.7[19]	40 ± 5.6[20]	39 ± 5.5[20]	45 ± 5.7[20]	51 ± 7.1[20]	40 ± 4.4[20]
25	32 ± 5.5[19]	36 ± 5.3[20]	30 ± 5.4[20]	35 ± 4.0[20]	31 ± 5.8[20]	33 ± 7.2[20]
30	29 ± 3.8[19]	27 ± 6.5[20]	25 ± 4.7[20]	30 ± 5.4[20]	32 ± 6.3[20]	24 ± 5.9[20]
Total Session						
0-30 mins	339 ± 28.0[19]	312 ± 25.2[20]	317 ± 27.2[20]	326 ± 24.0[20]	352 ± 30.1[20]	311 ± 27.8[20]
Statistic						
F statistic	F(5,113)=0.37; p=0.866					

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Open Field Rearing in Female Rats (PND 29-34)

Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
Model: Main effects (dose, epoch) and interactions				
Dose	1.10	5	155	0.363
Epoch	85.09	5	558	≤0.001
Interaction	1.25	25	589	0.186
Model: Main effects (dose, epoch)				
Dose	0.93	5	189	0.461
Epoch	84.34	5	577	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)					
	0	30	100	300	1000	3000
Minutes						
5	98 ± 5.8[19]	95 ± 5.8[20]	92 ± 3.9[20]	90 ± 5.8[20]	102 ± 5.3[20]	96 ± 3.7[20]
10	69 ± 5.5[19]	74 ± 5.6[20]	66 ± 4.8[20]	63 ± 6.3[20]	79 ± 6.6[20]	75 ± 5.2[20]
15	50 ± 7.8[19]	48 ± 5.8[20]	54 ± 6.5[20]	39 ± 5.4[20]	51 ± 5.4[20]	50 ± 4.7[20]
20	35 ± 4.5[19]	44 ± 4.5[20]	40 ± 4.4[20]	43 ± 5.5[20]	39 ± 4.9[20]	44 ± 5.8[20]
25	37 ± 5.6[19]	38 ± 4.9[20]	26 ± 3.5[20]	31 ± 5.9[20]	38 ± 6.8[20]	36 ± 5.1[20]
30	26 ± 4.6[19]	29 ± 5.1[20]	25 ± 4.7[20]	19 ± 3.9[20]	33 ± 6.7[20]	33 ± 5.1[20]
Total Session						
0-30 mins	315 ± 28.2[19]	329 ± 24.0[20]	303 ± 19.2[20]	286 ± 22.4[20]	342 ± 26.8[20]	332 ± 23.2[20]
Statistic						
F statistic	F(5,113)=0.75; p=0.587					

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Open Field Rearing in Male Rats (PND 57-63)

Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
Model: Main effects (dose, epoch) and interactions				
Dose	2.33	3	177	0.076
Epoch	80.15	8	574	≤0.001
Interaction	0.98	24	611	0.488
Model: Main effects (dose, epoch)				
Dose	1.37	3	233	0.254
Epoch	79.44	8	591	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Minutes				
5	34 ± 2.7[19]	33 ± 2.2[20]	33 ± 2.6[20]	38 ± 2.3[20]
10	24 ± 2.3[19]	21 ± 1.9[20]	24 ± 2.3[20]	26 ± 2.1[20]
15	13 ± 2.3[19]	10 ± 1.4[20]	10 ± 1.9[20]	11 ± 1.3[20]
20	10 ± 2.2[19]	7 ± 1.6[20]	7 ± 0.9[20]	7 ± 1.3[20]
25	11 ± 2.0[19]	8 ± 1.5[20]	8 ± 1.9[20]	7 ± 1.4[20]
30	7 ± 1.5[19]	4 ± 0.7[20]	5 ± 1.3[20]	5 ± 1.2[20]
35	7 ± 1.3[19]	6 ± 1.4[20]	5 ± 1.3[20]	4 ± 1.0[20]
40	9 ± 1.6[19]	4 ± 1.1[20]	5 ± 0.9[20]	7 ± 1.9[20]
45	4 ± 0.8[19]	4 ± 1.1[20]	6 ± 1.4[20]	4 ± 1.3[20]
Total Session				
0-45 mins	119 ± 12.4[19]	98 ± 6.2[20]	102 ± 8.0[20]	109 ± 8.1[20]
Statistic				
F statistic	F(3,75)=1.06; p=0.372			

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Open Field Rearing in Female Rats (PND 57-62)

Model Selection Results				
	F statistic	Numerator df	Denominator df	p-value
Model: Main effects (dose, epoch) and interactions				
Dose	4.73	3	178	0.003
Epoch	83.35	8	574	≤0.001
Interaction	1.13	24	612	0.303
Model: Main effects (dose, epoch)				
Dose	2.59	3	232	0.054
Epoch	82.80	8	591	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Minutes				
5	46 ± 3.2[19]	44 ± 2.7[20]	47 ± 2.6[20]	45 ± 2.7[20]
10	28 ± 2.7[19]	25 ± 1.9[20]	28 ± 2.5[20]	30 ± 1.9[20]
15	12 ± 2.2[19]	13 ± 1.9[20]	18 ± 2.4[20]	20 ± 1.9[20]
20	8 ± 1.7[19]	7 ± 1.5[20]	13 ± 2.0[20]	10 ± 2.0[20]
25	7 ± 1.4[19]	7 ± 1.5[20]	10 ± 2.2[20]	12 ± 1.9[20]
30	8 ± 1.6[19]	10 ± 1.8[20]	10 ± 2.1[20]	8 ± 1.6[20]
35	8 ± 1.8[19]	5 ± 1.1[20]	8 ± 1.6[20]	11 ± 3.1[20]
40	8 ± 1.5[19]	5 ± 1.7[20]	7 ± 1.9[20]	8 ± 1.9[20]
45	4 ± 1.5[19]	3 ± 0.8[20]	7 ± 1.5[20]	9 ± 2.2[20]
Total Session				
0-45 mins	129 ± 10.2[19]	119 ± 9.0[20]	148 ± 12.7[20]	151 ± 12.3[20]
Statistic				
F statistic	F(3,75)=1.94; p=0.131			

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LEGEND

Data represent mean ± SEM [sample size] of photocell beam breaks representing rearing as detected by MotorMonitor, Kinder Scientific.

PND = Postnatal Day

Sprague Dawley (Hsd:Sprague Dawley SD) rats were exposed through the dam from gestation day 6 to 3 months post PND 28 weaning. Male and female rats were tested as juveniles (PND 29-35) and again as young adults (PND 57-63).

Responses occurring over epochs were analyzed using Poisson mixed models with an autoregressive error structure, with dose and epoch as factors.

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

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

Cumulative photocell beam breaks over the entire session (Total Session) were analyzed by one-way analysis of variance (ANOVA) and the F-statistic is presented.

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

** END OF REPORT **