

## N15 – Motor Activity – Total Activity

Study Number: C11042B-01

Test Compound: Triphenyl phosphate

Date: 05 May 2026

DTTID: 104-016-004-000-6

CAS Number: 115-86-6

Time: 10:37:58 AM

Study Type: TOX with Perinatal Exposure

DTXSID: DTXSID1021952

Species/Strain: Rat/Harlan Sprague Dawley

Open Field Total Activity in Male Rats (PND 29-35)

### Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
<b>Model: Main effects (dose, epoch) and interactions</b>				
Dose	0.71	5	193	0.617
Epoch	426.42	5	567	≤0.001
Interaction	0.85	25	616	0.678
<b>Model: Main effects (dose, epoch)</b>				
Dose	0.74	5	208	0.598
Epoch	416.82	5	566	≤0.001

### Model: Main Effects with No Interactions

	Dose Group (ppm)					
	0	30	100	300	1000	3000
<b>Minutes</b>						
5	1373 ± 34.8[19]	1380 ± 35.2[20]	1410 ± 37.0[20]	1310 ± 37.1[20]	1348 ± 25.8[20]	1386 ± 45.6[20]
10	837 ± 48.6[19]	825 ± 35.8[20]	866 ± 47.6[20]	823 ± 36.1[20]	880 ± 39.6[20]	926 ± 38.8[20]
15	659 ± 31.1[19]	582 ± 40.9[20]	609 ± 40.5[20]	567 ± 36.3[20]	594 ± 40.9[20]	625 ± 42.0[20]
20	580 ± 52.2[19]	491 ± 42.8[20]	525 ± 44.2[20]	462 ± 33.2[20]	494 ± 55.1[20]	554 ± 36.5[20]
25	401 ± 51.0[19]	437 ± 40.7[20]	393 ± 51.0[20]	454 ± 42.5[20]	365 ± 52.2[20]	379 ± 43.7[20]
30	417 ± 50.1[19]	322 ± 46.3[20]	359 ± 47.2[20]	347 ± 48.3[20]	357 ± 51.9[20]	300 ± 56.0[20]
<b>Total Session</b>						
0-30 mins	4267 ± 203.3[19]	4037 ± 123.8[20]	4162 ± 154.6[20]	3964 ± 111.8[20]	4038 ± 167.4[20]	4169 ± 161.6[20]
<b>Statistic</b>						
F statistic	F(5,113)=0.51; p=0.767					

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Open Field Total Activity in Female Rats (PND 29-34)

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### Model Selection Results

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	F statistic	Numerator df	Denominator df	p-value
<b>Model: Main effects (dose, epoch) and interactions</b>				
Dose	1.88	5	186	0.100
Epoch	386.79	5	571	≤0.001
Interaction	0.77	25	616	0.781
<b>Model: Main effects (dose, epoch)</b>				
Dose	2.16	5	201	0.059
Epoch	377.92	5	571	≤0.001

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#### Model: Main Effects with No Interactions

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	Dose Group (ppm)					
	0	30	100	300	1000	3000
<b>Minutes</b>						
5	1364 ± 32.5[19]	1293 ± 31.0[20]	1382 ± 42.4[20]	1311 ± 56.8[20]	1447 ± 37.8[20]	1376 ± 29.6[20]
10	835 ± 39.0[19]	809 ± 39.6[20]	862 ± 37.1[20]	805 ± 58.8[20]	894 ± 44.9[20]	885 ± 36.9[20]
15	667 ± 39.4[19]	542 ± 40.3[20]	606 ± 40.8[20]	556 ± 55.9[20]	660 ± 48.9[20]	591 ± 36.2[20]
20	526 ± 37.2[19]	548 ± 31.0[20]	507 ± 45.7[20]	560 ± 45.3[20]	599 ± 44.3[20]	570 ± 29.5[20]
25	459 ± 48.9[19]	495 ± 34.2[20]	407 ± 43.2[20]	450 ± 60.8[20]	468 ± 56.6[20]	484 ± 33.0[20]
30	396 ± 53.0[19]	396 ± 38.6[20]	384 ± 48.4[20]	321 ± 43.5[20]	437 ± 46.0[20]	476 ± 43.2[20]
<b>Total Session</b>						
0-30 mins	4247 ± 172.1[19]	4083 ± 108.5[20]	4148 ± 177.2[20]	4003 ± 181.1[20]	4504 ± 198.4[20]	4381 ± 130.5[20]
<b>Statistic</b>						
F statistic	F(5,113)=1.33; p=0.255					

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Open Field Total Activity in Male Rats (PND 57-63)

### Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
<b>Model: Main effects (dose, epoch) and interactions</b>				
Dose	2.16	3	194	0.094
Epoch	158.69	8	598	≤0.001
Interaction	1.04	24	639	0.417
<b>Model: Main effects (dose, epoch)</b>				
Dose	2.19	3	206	0.091
Epoch	155.43	8	598	≤0.001

### Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
<b>Minutes</b>				
5	1438 ± 47.3[19]	1406 ± 43.0[20]	1437 ± 56.0[20]	1563 ± 50.8[20]
10	1067 ± 58.5[19]	1046 ± 45.4[20]	1059 ± 61.3[20]	1236 ± 48.4[20]
15	751 ± 55.6[19]	774 ± 40.6[20]	671 ± 59.4[20]	740 ± 48.8[20]
20	568 ± 60.2[19]	440 ± 53.2[20]	553 ± 53.6[20]	577 ± 67.1[20]
25	522 ± 63.2[19]	535 ± 56.4[20]	464 ± 68.7[20]	539 ± 52.0[20]
30	454 ± 58.8[19]	358 ± 55.0[20]	408 ± 53.1[20]	424 ± 57.8[20]
35	465 ± 60.7[19]	470 ± 55.4[20]	375 ± 62.8[20]	383 ± 56.5[20]
40	523 ± 50.6[19]	349 ± 54.8[20]	390 ± 56.8[20]	421 ± 58.2[20]
45	362 ± 37.8[19]	292 ± 62.4[20]	354 ± 56.9[20]	355 ± 64.1[20]
<b>Total Session</b>				
0-45 mins	6150 ± 306.1[19]	5668 ± 202.8[20]	5711 ± 297.9[20]	6237 ± 244.6[20]
<b>Statistic</b>				
F statistic	F(3,75)=1.23; p=0.303			

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Open Field Total Activity in Female Rats (PND 57-62)

### Model Selection Results

	F statistic	Numerator df	Denominator df	p-value
<b>Model: Main effects (dose, epoch) and interactions</b>				
Dose	2.78	3	230	0.042
Epoch	186.71	8	599	≤0.001
Interaction	0.97	24	642	0.499
<b>Model: Main effects (dose, epoch)</b>				
Dose	2.80	3	236	0.041
Epoch	181.41	8	598	≤0.001

### Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
<b>Minutes</b>				
5	1422 ± 30.1[19]	1282 ± 31.0[20]	1402 ± 29.1[20]	1270 ± 30.6[20]
10	1023 ± 47.5[19]	904 ± 30.3[20]	1026 ± 42.5[20]	1014 ± 27.8[20]
15	679 ± 53.5[19]	677 ± 47.4[20]	708 ± 49.3[20]	728 ± 44.1[20]
20	537 ± 52.7[19]	447 ± 52.9[20]	615 ± 54.1[20]	471 ± 38.8[20]
25	471 ± 47.6[19]	424 ± 49.1[20]	480 ± 49.2[20]	453 ± 47.6[20]
30	480 ± 51.0[19]	506 ± 44.0[20]	434 ± 43.3[20]	444 ± 58.0[20]
35	449 ± 53.0[19]	437 ± 46.9[20]	446 ± 58.6[20]	449 ± 50.9[20]
40	480 ± 61.2[19]	366 ± 46.9[20]	405 ± 61.6[20]	379 ± 53.2[20]
45	317 ± 45.7[19]	256 ± 45.2[20]	303 ± 49.1[20]	391 ± 56.2[20]
<b>Dose effect</b>				
p-value		0.029	0.995	0.498
<b>Total Session</b>				
0-45 mins	5858 ± 157.1[19]	5298 ± 208.0[20]	5820 ± 235.5[20]	5599 ± 194.3[20]
<b>Statistic</b>				
F statistic	F(3,75)=1.63; p=0.191			

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### LEGEND

Data represent mean  $\pm$  SEM [sample size] of photocell beam breaks representing total activity (basic movements + 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).

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

Responses occurring over epochs were analyzed using repeated measures analysis of variance (RMANOVA) 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.

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.

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 \*\***