

N10 – Motor Activity – Basic Movements

Study Number: C11042B-01

Test Compound: Triphenyl phosphate

Date: 24 Jun 2026

DTTID: 104-016-004-000-6

CAS Number: 115-86-6

Time: 4:35:48 PM

Study Type: TOX with Perinatal Exposure

DTXSID: DTXSID1021952

Species/Strain: Rat/Harlan Sprague Dawley

Open Field Basic Movements 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	0.87	5	196	0.501
Epoch	428.95	5	565	≤0.001
Interaction	0.89	25	616	0.619
Model: Main effects (dose, epoch)				
Dose	0.89	5	211	0.490
Epoch	418.66	5	564	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)					
	0	30	100	300	1000	3000
Minutes						
5	1272 ± 32.1[19]	1284 ± 34.1[20]	1313 ± 38.7[20]	1218 ± 34.6[20]	1247 ± 25.0[20]	1300 ± 43.5[20]
10	758 ± 44.1[19]	759 ± 35.1[20]	793 ± 44.6[20]	750 ± 31.5[20]	798 ± 38.0[20]	851 ± 39.7[20]
15	611 ± 29.0[19]	536 ± 36.7[20]	557 ± 36.2[20]	517 ± 32.2[20]	540 ± 36.4[20]	572 ± 39.3[20]
20	531 ± 49.1[19]	450 ± 39.4[20]	485 ± 40.2[20]	418 ± 33.3[20]	443 ± 51.5[20]	514 ± 34.7[20]
25	369 ± 48.1[19]	401 ± 38.4[20]	363 ± 46.9[20]	419 ± 40.1[20]	334 ± 48.6[20]	347 ± 38.6[20]
30	388 ± 48.7[19]	295 ± 42.9[20]	333 ± 44.4[20]	317 ± 44.2[20]	324 ± 47.7[20]	276 ± 51.1[20]
Total Session						
0-30 mins	3928 ± 190.2[19]	3724 ± 112.0[20]	3845 ± 143.1[20]	3638 ± 96.8[20]	3686 ± 151.4[20]	3859 ± 150.6[20]
Statistic						
F statistic	F(5,113)=0.63; p=0.680					

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Open Field Basic Movements 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	1.81	5	187	0.114
Epoch	378.15	5	570	≤0.001
Interaction	0.75	25	616	0.808
Model: Main effects (dose, epoch)				
Dose	2.07	5	202	0.071
Epoch	369.53	5	569	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)					
	0	30	100	300	1000	3000
Minutes						
5	1266 ± 34.8[19]	1198 ± 31.7[20]	1290 ± 42.7[20]	1221 ± 54.0[20]	1345 ± 34.9[20]	1280 ± 28.2[20]
10	767 ± 37.5[19]	735 ± 37.6[20]	796 ± 35.9[20]	741 ± 55.5[20]	815 ± 40.6[20]	810 ± 34.2[20]
15	616 ± 38.3[19]	495 ± 37.4[20]	552 ± 37.6[20]	517 ± 51.9[20]	609 ± 45.9[20]	541 ± 34.3[20]
20	491 ± 35.5[19]	503 ± 28.8[20]	467 ± 43.7[20]	517 ± 41.2[20]	559 ± 41.9[20]	527 ± 25.9[20]
25	421 ± 45.2[19]	456 ± 33.0[20]	381 ± 41.4[20]	419 ± 57.4[20]	430 ± 52.1[20]	448 ± 29.3[20]
30	370 ± 51.6[19]	367 ± 36.1[20]	359 ± 45.0[20]	303 ± 40.6[20]	404 ± 42.2[20]	443 ± 39.5[20]
Total Session						
0-30 mins	3932 ± 164.3[19]	3754 ± 104.9[20]	3845 ± 171.3[20]	3717 ± 170.7[20]	4162 ± 179.6[20]	4049 ± 115.2[20]
Statistic						
F statistic	F(5,113)=1.27; p=0.281					

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Open Field Basic Movements 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	2.13	3	195	0.098
Epoch	155.84	8	598	≤0.001
Interaction	1.04	24	639	0.416
Model: Main effects (dose, epoch)				
Dose	2.16	3	207	0.093
Epoch	152.65	8	598	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Minutes				
5	1404 ± 46.0[19]	1372 ± 41.7[20]	1404 ± 54.4[20]	1525 ± 49.8[20]
10	1043 ± 57.2[19]	1025 ± 44.5[20]	1036 ± 59.6[20]	1210 ± 47.7[20]
15	738 ± 54.7[19]	763 ± 40.0[20]	661 ± 58.0[20]	729 ± 48.1[20]
20	558 ± 58.7[19]	434 ± 52.0[20]	546 ± 52.9[20]	570 ± 66.1[20]
25	511 ± 61.6[19]	526 ± 55.5[20]	456 ± 67.8[20]	531 ± 51.1[20]
30	446 ± 57.5[19]	354 ± 54.5[20]	403 ± 52.1[20]	419 ± 57.1[20]
35	458 ± 59.7[19]	463 ± 54.4[20]	370 ± 61.9[20]	380 ± 55.9[20]
40	514 ± 49.7[19]	345 ± 53.9[20]	385 ± 56.0[20]	414 ± 56.8[20]
45	359 ± 37.4[19]	288 ± 61.5[20]	348 ± 55.7[20]	350 ± 63.2[20]
Total Session				
0-45 mins	6031 ± 298.5[19]	5570 ± 199.3[20]	5609 ± 291.8[20]	6128 ± 239.9[20]
Statistic				
F statistic	F(3,75)=1.22; p=0.307			

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Open Field Basic Movements 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	2.74	3	230	0.044
Epoch	179.86	8	599	≤0.001
Interaction	0.96	24	642	0.512
Model: Main effects (dose, epoch)				
Dose	2.76	3	236	0.043
Epoch	174.78	8	598	≤0.001

Model: Main Effects with No Interactions

	Dose Group (ppm)			
	0	30	1000	3000
Minutes				
5	1376 ± 30.8[19]	1238 ± 30.1[20]	1355 ± 28.8[20]	1225 ± 30.6[20]
10	995 ± 46.3[19]	879 ± 30.3[20]	998 ± 41.6[20]	984 ± 27.4[20]
15	667 ± 52.2[19]	664 ± 46.2[20]	690 ± 48.1[20]	708 ± 42.9[20]
20	529 ± 51.7[19]	439 ± 51.8[20]	602 ± 53.1[20]	461 ± 37.7[20]
25	464 ± 46.8[19]	417 ± 48.0[20]	470 ± 47.8[20]	441 ± 46.7[20]
30	472 ± 49.6[19]	497 ± 43.1[20]	424 ± 42.3[20]	435 ± 56.9[20]
35	441 ± 51.7[19]	432 ± 46.3[20]	437 ± 57.6[20]	439 ± 49.0[20]
40	472 ± 60.2[19]	361 ± 46.2[20]	398 ± 60.1[20]	372 ± 51.7[20]
45	313 ± 44.7[19]	253 ± 44.8[20]	297 ± 48.2[20]	382 ± 54.5[20]
Dose effect				
p-value		0.029	0.985	0.416
Total Session				
0-45 mins	5729 ± 151.9[19]	5179 ± 203.4[20]	5671 ± 229.0[20]	5448 ± 186.8[20]
Statistic				
F statistic	F(3,75)=1.63; p=0.190			

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LEGEND

Data represent mean \pm SEM [sample size] of photocell beam breaks recording basic movements 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 ****