

## M19: TDAR SRBC: ELISpot

Study Number: I20263

Test Compound: Tris(chloropropyl) phosphate

Date: 06 Jun 2024

DTTID: 104-016-002-000-4

CAS Number: 13674-84-5

Time: 9:15:48 AM

Study Type: Immune screening with perinatal exposure

DTXSID: DTXSID201016652

Species/Strain: Rat/Harlan Sprague Dawley

F1 Males: SRBC

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
Spleen Weight (g)	0.734 ± 0.033[12]*	0.678 ± 0.022[12]	0.675 ± 0.024[12]	0.644 ± 0.027[12]	0.508 ± 0.015[5]**
Spleen Cells (x10 <sup>6</sup> )	181.91 ± 18.98[12]	200.68 ± 18.30[12]	230.29 ± 21.31[12]	213.95 ± 26.93[12]	76.53 ± 22.41[5]**
IgM AFC/10 <sup>6</sup> Spleen Cells	317.1 ± 70.6[12]*	431.0 ± 204.5[12]	127.1 ± 31.6[12]	171.5 ± 71.4[12]	14.0 ± 3.9[5]**
IgM AFC/Spleen (x10 <sup>3</sup> )	51.40 ± 10.36[12]*	61.60 ± 24.09[12]	29.12 ± 9.27[12]	33.18 ± 13.62[12]	0.88 ± 0.30[5]**

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F1 Females: SRBC

	Treatment Groups (ppm)				
	0	2500	5000	10000	15 (mg/kg CPS)
Spleen Weight (g)	0.560 ± 0.029[12]	0.564 ± 0.018[12]	0.532 ± 0.015[12]	0.519 ± 0.021[12]	0.407 ± 0.023[5]**
Spleen Cells (x10 <sup>6</sup> )	266.21 ± 27.39[12]*	244.77 ± 30.90[12]	193.66 ± 13.67[12]	195.11 ± 20.87[12]	101.22 ± 16.95[5]**
IgM AFC/10 <sup>6</sup> Spleen Cells	113.9 ± 16.1[11]	206.5 ± 46.4[12]	368.5 ± 83.0[12]	254.8 ± 113.1[12]	17.0 ± 3.3[5]**
IgM AFC/Spleen (x10 <sup>3</sup> )	27.25 ± 3.26[11]	53.83 ± 13.52[12]	70.95 ± 17.04[12]	42.28 ± 15.75[12]	1.54 ± 0.12[5]**

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### LEGEND

The ELISpot assay was conducted on the same set of animals as the AFC assay. Data for spleen weight and spleen cell count reported here are also included on the M07 report.

Data are displayed as mean  $\pm$  SEM (N) unless otherwise noted.

Statistical analysis was performed by Jonckheere (trend) and then a pairwise test. Williams/Dunnett pairwise tests are used for organ weights, Shirley/Dunn pairwise tests are used for all other endpoints. The positive control group (15 mg/kg CPS) was excluded from the trend test.

Statistical analysis for the positive control group (15 mg/kg CPS) compared to the vehicle control group was performed using a t-test for organ weights and a Wilcoxon rank sum test for all other endpoints.

Statistical significance for the control group indicates a significant trend test.

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group.

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

TDAR = T-Dependent Antibody Response; SRBC = Sheep Red Blood Cells; AFC = Antibody-Forming Cells; IgM = Immunoglobulin M

SEM = Standard Error of the Mean

SD = Study Day

CPS = Cyclophosphamide

Males from the vehicle control and treatment groups were removed on SD 115; females were removed on SD 109.

Animals from the positive control group (15 mg/kg CPS) were purchased from a commercial source, age matched to the F1 animals, and removed on the same day as the F1 animals.

### OUTLIERS

The IgM AFC/ $10^6$  Spleen Cells and IgM AFC/Spleen values for one female in the vehicle control group were excluded as outliers.

\*\* END OF REPORT \*\*