

Study Number: I94043
Test Type: TOX
Route: Dosing in Water
Species/Strain: Mouse/B6C3F1/N

M06: Spleen Immunophenotyping
Test Compound: Sodium Metavanadate
CAS Number: 13718-26-8

Date Report Requested: 02/10/2022
Time Report Requested: 12:36:47
Lab: Burleson Research Technologies

Study Number: I94043
Study Gender: Female
PWG Approval Date: See web page for date of PWG Approval
Version: v1.3.7
Stat Version: v2.5.2A

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Females: Immunophenotyping							
	Treatment Groups (ppm)						
	0	31.3	62.5	125	250	500	50 mg/kg CPS
Spleen Cells (x10 ⁶)	42.85 ± 2.41 (8)	39.15 ± 2.55 (8)	44.23 ± 3.37 (8)	39.28 ± 3.68 (8)	48.20 ± 5.79 (8)	43.38 ± 5.32 (8)	10.35 ± 1.32 (8) **
Total Lymphocytes	42.244 ± 2.428 (8)	38.466 ± 2.616 (8)	43.328 ± 3.202 (8)	38.108 ± 3.602 (8)	45.713 ± 5.242 (8)	41.481 ± 5.055 (8)	10.149 ± 1.297 (8) **
Total T Cells	17.612 ± 1.029 (8)	16.437 ± 1.215 (8)	18.376 ± 1.464 (8)	15.982 ± 1.792 (8)	18.448 ± 2.258 (8)	15.036 ± 1.717 (8)	5.326 ± 0.683 (8) **
CD4 ⁺ T Cells ^a	10.351 ± 0.576 (8)	9.645 ± 0.742 (8)	10.901 ± 0.860 (8)	9.650 ± 1.093 (8)	11.180 ± 1.354 (8)	9.075 ± 0.985 (8)	2.928 ± 0.382 (8) **
CD8 ⁺ T Cells ^b	6.220 ± 0.411 (8)	5.878 ± 0.437 (8)	6.396 ± 0.525 (8)	5.368 ± 0.643 (8)	6.070 ± 0.762 (8)	4.882 ± 0.645 (8)	2.056 ± 0.254 (8) **
B Cells	20.553 ± 1.260 (8)	18.707 ± 1.272 (8)	20.770 ± 1.293 (8)	18.783 ± 1.660 (8)	23.244 ± 2.636 (8)	22.833 ± 2.968 (8)	4.123 ± 0.549 (8) **
NK Cells	1.975 ± 0.113 (8)	1.605 ± 0.114 (8)	1.683 ± 0.169 (8)	1.556 ± 0.138 (8)	1.701 ± 0.176 (8)	1.669 ± 0.230 (8)	0.332 ± 0.044 (8) **
Mono/Mac Cells ^c	0.972 ± 0.065 (8)	0.859 ± 0.061 (8)	1.095 ± 0.095 (8)	0.926 ± 0.104 (8)	1.223 ± 0.153 (8)	0.984 ± 0.100 (8)	0.241 ± 0.025 (8) **
Neutrophils	0.378 ± 0.040 (8) *	0.355 ± 0.021 (8)	0.376 ± 0.034 (8)	0.304 ± 0.033 (8)	0.494 ± 0.195 (8)	0.293 ± 0.038 (8)	0.018 ± 0.003 (8) **
Eosinophils	0.124 ± 0.014 (8)	0.120 ± 0.015 (8)	0.132 ± 0.014 (8)	0.087 ± 0.014 (8)	0.121 ± 0.018 (8)	0.108 ± 0.015 (8)	0.014 ± 0.002 (8) **
Total T Cells: B Cells Ratio	0.862 ± 0.026 (8) **	0.879 ± 0.025 (8)	0.879 ± 0.023 (8)	0.845 ± 0.031 (8)	0.796 ± 0.039 (8)	0.675 ± 0.031 (8) **	1.316 ± 0.062 (8) **
CD4 ⁺ T Cells: CD8 ⁺ T Cells Ratio	1.673 ± 0.020 (8) **	1.641 ± 0.021 (8)	1.713 ± 0.041 (8)	1.806 ± 0.061 (8) *	1.851 ± 0.046 (8) **	1.900 ± 0.061 (8) **	1.414 ± 0.026 (8) **
Percent Total Lymphocytes	98.544 ± 0.274 (8) **	98.135 ± 0.459 (8)	98.088 ± 0.347 (8)	97.051 ± 0.583 (8) *	95.423 ± 1.509 (8) *	95.631 ± 0.582 (8) **	98.101 ± 0.280 (8)
Percent Total T Cells	41.734 ± 0.674 (8) **	42.643 ± 0.759 (8)	42.290 ± 0.595 (8)	41.615 ± 0.869 (8)	40.291 ± 1.144 (8)	36.630 ± 0.916 (8) **	52.725 ± 1.108 (8) **
Percent CD4 ⁺ T Cells ^a	58.846 ± 0.277 (8) **	58.605 ± 0.323 (8)	59.386 ± 0.551 (8)	60.301 ± 0.671 (8)	60.691 ± 0.422 (8) **	60.663 ± 0.686 (8) *	54.839 ± 0.329 (8) **
Percent CD8 ⁺ T Cells ^b	35.203 ± 0.296 (8) **	35.748 ± 0.308 (8)	34.763 ± 0.515 (8)	33.546 ± 0.702 (8)	32.884 ± 0.577 (8) **	32.082 ± 0.722 (8) **	38.861 ± 0.532 (8) **
Percent B Cells	48.586 ± 0.771 (8) **	48.653 ± 0.634 (8)	48.239 ± 0.728 (8)	49.465 ± 0.823 (8)	51.003 ± 1.100 (8)	54.614 ± 1.011 (8) **	40.415 ± 1.024 (8) **
Percent NK Cells	4.689 ± 0.114 (8) **	4.193 ± 0.157 (8) *	3.843 ± 0.111 (8) **	4.098 ± 0.070 (8) **	3.775 ± 0.123 (8) **	3.990 ± 0.153 (8) **	3.270 ± 0.138 (8) **
Percent Mono/Mac Cells ^c	2.269 ± 0.077 (8)	2.207 ± 0.109 (8)	2.471 ± 0.074 (8)	2.347 ± 0.118 (8)	2.532 ± 0.060 (8)	2.305 ± 0.135 (8)	2.400 ± 0.146 (8)
Percent Neutrophils	0.890 ± 0.083 (8) **	0.913 ± 0.029 (8)	0.854 ± 0.054 (8)	0.787 ± 0.062 (8)	0.959 ± 0.286 (8)	0.685 ± 0.041 (8) *	0.195 ± 0.041 (8) **
Percent Eosinophils	0.285 ± 0.020 (8) *	0.305 ± 0.031 (8)	0.299 ± 0.021 (8)	0.215 ± 0.018 (8)	0.252 ± 0.021 (8)	0.250 ± 0.023 (8)	0.136 ± 0.011 (8) **

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LEGEND

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

^aHelper/DTH - T Cell

^bCytotoxic T Cell

^cMonocytes/Macrophage

All units are $\times 10^6$ /spleen unless otherwise noted.

Statistical analysis was performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical analysis for the positive control group compared to the vehicle control group was performed using the Kruskal-Wallis test.

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 $P \leq 0.01$

CPS = Cyclophosphamide

**** END OF REPORT ****