

**Study Number:** IMM20704

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Mouse/B6C3F1/N

**Study Number:**

IMM20704

**Study Gender:**

Male

**PWG Approval Date**

See web page for date of PWG Approval

**PA06: Organ Weights Summary**

**Test Compound:** Resveratrol

**CAS Number:** 501-36-0

**Date Report Requested:** 07/13/2020

**Time Report Requested:** 14:01:41

**Lab:** NTP

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**PA06: Organ Weights Summary**  
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**Males: Study 1**

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**Treatment Groups (mg/kg/day)**

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	<b>0</b>	<b>156</b>	<b>312</b>	<b>625</b>	<b>1250</b>
Terminal Body Wt. (g)	29.4 ± 0.8 (8)	29.0 ± 1.0 (8)	28.4 ± 1.1 (8)	28.1 ± 0.7 (8)	27.5 ± 0.6 (7)
Spleen					
Absolute (g)	0.081 ± 0.003 (8)	0.086 ± 0.004 (8)	0.085 ± 0.005 (8)	0.085 ± 0.002 (8)	0.081 ± 0.003 (7)
Relative (mg/g)	2.77 ± 0.09 (8)	3.00 ± 0.20 (8)	3.01 ± 0.16 (8)	3.05 ± 0.10 (8)	2.95 ± 0.09 (7)

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**Males: Study 1**

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	Treatment Groups (mg/kg/day)	
	2500	50 mg/kg CPS
Terminal Body Wt. (g)	29.3 ± 1.3 (7)	33.0 ± 1.0 (8) *
Spleen		
Absolute (g)	0.087 ± 0.002 (6)	0.036 ± 0.002 (8) **
Relative (mg/g)	2.86 ± 0.06 (6)	1.08 ± 0.05 (8) **

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**Males: Study 2**

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**Treatment Groups (mg/kg/day)**

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	<b>0</b>	<b>156</b>	<b>312</b>	<b>625</b>	<b>1250</b>
Terminal Body Wt. (g)	29.0 ± 0.7 (8) **	28.8 ± 0.7 (8)	28.2 ± 0.9 (8)	29.0 ± 0.7 (8)	27.0 ± 0.6 (8)
Spleen					
Absolute (g)	0.064 ± 0.002 (8)	0.059 ± 0.002 (8)	0.061 ± 0.003 (8)	0.062 ± 0.003 (8)	0.060 ± 0.002 (8)
Relative (mg/g)	2.20 ± 0.08 (8)	2.05 ± 0.06 (8)	2.17 ± 0.06 (8)	2.13 ± 0.08 (8)	2.21 ± 0.06 (8)

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**Males: Study 2**

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	Treatment Groups (mg/kg/day)	
	2500	50 mg/kg CPS
Terminal Body Wt. (g)	26.6 ± 0.6 (7) *	28.0 ± 0.5 (8)
Spleen		
Absolute (g)	0.063 ± 0.005 (7)	0.038 ± 0.002 (7) **
Relative (mg/g)	2.35 ± 0.15 (7)	1.37 ± 0.07 (7) **

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**Males: Study 4**

	Treatment Groups (mg/kg/day)				
	0	156	312	625	1250
Terminal Body Wt. (g)	29.5 ± 0.8 (8)	30.4 ± 1.0 (8)	29.7 ± 0.7 (8)	29.0 ± 0.4 (8)	28.6 ± 0.7 (8)
Kidneys					
Absolute (g)	0.55 ± 0.02 (8)	0.54 ± 0.02 (8)	0.54 ± 0.03 (8)	0.53 ± 0.01 (8)	0.51 ± 0.02 (8)
Relative (mg/g)	18.74 ± 0.58 (8)	17.79 ± 0.29 (8)	18.20 ± 0.85 (8)	18.13 ± 0.47 (8)	17.77 ± 0.33 (8)
Liver					
Absolute (g)	1.43 ± 0.04 (8)	1.45 ± 0.06 (8)	1.45 ± 0.02 (8)	1.35 ± 0.02 (8)	1.43 ± 0.04 (8)
Relative (mg/g)	48.41 ± 0.48 (8) *	47.74 ± 0.65 (8)	49.08 ± 0.50 (8)	46.63 ± 1.04 (8)	50.10 ± 1.09 (8)
Lung					
Absolute (g)	0.21 ± 0.01 (8)	0.22 ± 0.01 (8)	0.24 ± 0.02 (8)	0.23 ± 0.01 (8)	0.22 ± 0.02 (8)
Relative (mg/g)	7.12 ± 0.31 (8)	7.35 ± 0.43 (8)	7.92 ± 0.51 (8)	7.87 ± 0.51 (8)	7.71 ± 0.60 (8)
Spleen					
Absolute (g)	0.064 ± 0.003 (8)	0.070 ± 0.004 (8)	0.064 ± 0.002 (8)	0.067 ± 0.003 (8)	0.062 ± 0.003 (8)
Relative (mg/g)	2.17 ± 0.10 (8)	2.29 ± 0.10 (8)	2.16 ± 0.07 (8)	2.31 ± 0.13 (8)	2.16 ± 0.11 (8)
Thymus					
Absolute (g)	0.054 ± 0.005 (8)	0.051 ± 0.003 (8)	0.049 ± 0.002 (8)	0.053 ± 0.004 (8)	0.060 ± 0.002 (8)
Relative (mg/g)	1.84 ± 0.19 (8)	1.68 ± 0.08 (8)	1.65 ± 0.06 (8)	1.84 ± 0.14 (8)	2.10 ± 0.08 (8)

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**Males: Study 4**

	Treatment Groups (mg/kg/day)								
	2500			50 mg/kg CPS			1:10 dilution AAGM1		
Terminal Body Wt. (g)	29.0	± 0.5	(6)	28.7	± 0.6	(8)	29.9	± 0.3	(8)
Kidneys									
Absolute (g)	0.52	± 0.02	(6)	0.53	± 0.02	(8)			
Relative (mg/g)	17.90	± 0.32	(6)	18.25	± 0.40	(8)			
Liver									
Absolute (g)	1.52	± 0.04	(6)	1.32	± 0.03	(8) *			
Relative (mg/g)	52.39	± 0.96	(6) *	45.93	± 1.08	(8)			
Lung									
Absolute (g)	0.21	± 0.01	(6)	0.25	± 0.01	(8) *			
Relative (mg/g)	7.28	± 0.33	(6)	8.89	± 0.56	(8) *			
Spleen									
Absolute (g)	0.069	± 0.003	(6)	0.038	± 0.001	(8) **	0.072	± 0.002	(8) *
Relative (mg/g)	2.36	± 0.08	(6)	1.33	± 0.05	(8) **	2.39	± 0.07	(8)
Thymus									
Absolute (g)	0.053	± 0.006	(6)	0.024	± 0.003	(8) **			
Relative (mg/g)	1.83	± 0.18	(6)	0.84	± 0.09	(8) **			

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**Males: Study 5**

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**Treatment Groups (mg/kg/day)**

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	<b>0</b>	<b>156</b>	<b>312</b>	<b>625</b>	<b>1250</b>
Terminal Body Wt. (g)	29.2 ± 0.6 (8)	28.6 ± 1.2 (8)	29.2 ± 0.7 (8)	27.7 ± 0.3 (8)	28.2 ± 0.7 (8)
Spleen					
Absolute (g)	0.085 ± 0.002 (8)	0.083 ± 0.004 (8)	0.090 ± 0.003 (6)	0.089 ± 0.002 (8)	0.085 ± 0.003 (8)
Relative (mg/g)	2.93 ± 0.09 (8) *	2.92 ± 0.15 (8)	3.07 ± 0.05 (6)	3.23 ± 0.07 (8)	3.02 ± 0.15 (8)

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**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Mouse/B6C3F1/N

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**Males: Study 5**

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	Treatment Groups (mg/kg/day)	
	2500	50 mg/kg CPS
Terminal Body Wt. (g)	28.3 ± 0.4 (8)	27.9 ± 0.5 (8)
Spleen		
Absolute (g)	0.088 ± 0.004 (8)	0.038 ± 0.001 (8) **
Relative (mg/g)	3.13 ± 0.13 (8)	1.34 ± 0.05 (8) **

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**Males: Study 6**

	Treatment Groups (mg/kg/day)														
	0			156			312			625			1250		
Terminal Body Wt. (g)	29.0	± 0.4	(8)	28.5	± 0.5	(8)	27.8	± 0.4	(8)	28.4	± 0.5	(8)	28.0	± 0.8	(8)
Adrenal glands															
Absolute (g)	0.0280	± 0.0033	(8)	0.0260	± 0.0025	(8)	0.0269	± 0.0028	(8)	0.0446	± 0.0061	(8) *	0.0250	± 0.0032	(8)
Relative (mg/g)	0.97	± 0.12	(8)	0.91	± 0.09	(8)	0.96	± 0.10	(8)	1.56	± 0.19	(8) **	0.90	± 0.12	(8)
Kidneys															
Absolute (g)	0.54	± 0.01	(8)	0.54	± 0.02	(8)	0.49	± 0.01	(8)	0.53	± 0.01	(8)	0.50	± 0.02	(8)
Relative (mg/g)	18.52	± 0.32	(8)	19.06	± 0.30	(8)	17.66	± 0.35	(8)	18.61	± 0.31	(8)	17.86	± 0.22	(8)
Liver															
Absolute (g)	1.29	± 0.07	(8)	1.40	± 0.04	(8)	1.18	± 0.03	(8)	1.17	± 0.03	(8)	1.25	± 0.05	(8)
Relative (mg/g)	44.52	± 1.90	(8)	49.17	± 0.73	(8) *	42.53	± 0.88	(8)	41.15	± 0.61	(8)	44.46	± 0.78	(8)
Lung															
Absolute (g)	0.28	± 0.02	(8)	0.25	± 0.01	(8)	0.29	± 0.03	(8)	0.29	± 0.01	(8)	0.25	± 0.02	(8)
Relative (mg/g)	9.79	± 0.52	(8)	8.76	± 0.28	(8)	10.49	± 0.86	(8)	10.15	± 0.60	(8)	8.92	± 0.69	(8)
Spleen															
Absolute (g)	0.065	± 0.001	(8)	0.068	± 0.002	(8)	0.064	± 0.003	(8)	0.062	± 0.002	(8)	0.065	± 0.002	(8)
Relative (mg/g)	2.23	± 0.06	(8)	2.40	± 0.10	(8)	2.31	± 0.12	(8)	2.17	± 0.08	(8)	2.31	± 0.07	(8)
Thymus															
Absolute (g)	0.046	± 0.004	(8)	0.042	± 0.002	(8)	0.041	± 0.002	(8)	0.043	± 0.003	(8)	0.040	± 0.003	(8)
Relative (mg/g)	1.59	± 0.14	(8)	1.46	± 0.06	(8)	1.47	± 0.08	(8)	1.51	± 0.09	(8)	1.44	± 0.11	(8)

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**Males: Study 6**

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	Treatment Groups (mg/kg/day)					
	2500			50 mg/kg CPS		
Terminal Body Wt. (g)	29.3	± 0.7	(6)	28.8	± 1.0	(8)
Adrenal glands						
Absolute (g)	0.0303	± 0.0032	(6)	0.0231	± 0.0040	(8)
Relative (mg/g)	1.03	± 0.09	(6)	0.78	± 0.11	(8)
Kidneys						
Absolute (g)	0.53	± 0.02	(6)	0.51	± 0.02	(8)
Relative (mg/g)	18.02	± 0.28	(6)	17.56	± 0.32	(8)
Liver						
Absolute (g)	1.54	± 0.05	(6) **	1.16	± 0.04	(8)
Relative (mg/g)	52.40	± 0.63	(6) **	40.45	± 0.73	(8)
Lung						
Absolute (g)	0.28	± 0.02	(6)	0.28	± 0.01	(8)
Relative (mg/g)	9.64	± 0.59	(6)	9.70	± 0.26	(8)
Spleen						
Absolute (g)	0.071	± 0.002	(6)	0.040	± 0.001	(8) **
Relative (mg/g)	2.43	± 0.04	(6)	1.40	± 0.04	(8) **
Thymus						
Absolute (g)	0.041	± 0.003	(6)	0.028	± 0.002	(8) **
Relative (mg/g)	1.38	± 0.07	(6)	0.97	± 0.07	(8) **

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**Males: Study 7**

	Treatment Groups (mg/kg/day)														
	0			156			312			625			1250		
Terminal Body Wt. (g)	31.0	± 0.7	(8)	30.3	± 0.5	(8)	29.0	± 0.4	(8)	30.4	± 0.8	(8)	30.6	± 0.5	(8)
Kidneys															
Absolute (g)	0.48	± 0.01	(7)	0.45	± 0.01	(7)	0.43	± 0.01	(8) *	0.45	± 0.01	(8)	0.46	± 0.01	(8)
Relative (mg/g)	15.40	± 0.30	(7)	14.90	± 0.18	(7)	14.86	± 0.30	(8)	14.86	± 0.26	(8)	14.91	± 0.35	(8)
Liver															
Absolute (g)	1.10	± 0.04	(7)	1.04	± 0.02	(7)	1.02	± 0.03	(8)	1.04	± 0.03	(8)	1.07	± 0.02	(8)
Relative (mg/g)	35.46	± 0.56	(7)	34.95	± 0.56	(7)	35.14	± 0.88	(8)	34.14	± 0.57	(8)	34.94	± 0.70	(8)
Lung															
Absolute (g)	0.22	± 0.02	(7)	0.22	± 0.01	(7)	0.23	± 0.01	(8)	0.21	± 0.01	(8)	0.28	± 0.02	(8) *
Relative (mg/g)	7.14	± 0.70	(7)	7.46	± 0.48	(7)	7.98	± 0.45	(8)	6.98	± 0.51	(8)	9.02	± 0.72	(8)
Spleen															
Absolute (g)	0.065	± 0.004	(7)	0.067	± 0.002	(7)	0.064	± 0.002	(8)	0.075	± 0.005	(8)	0.074	± 0.002	(8)
Relative (mg/g)	2.10	± 0.09	(7)	2.25	± 0.07	(7)	2.19	± 0.06	(8)	2.48	± 0.19	(8)	2.40	± 0.07	(8)
Thymus															
Absolute (g)	0.048	± 0.003	(7)	0.049	± 0.004	(7)	0.049	± 0.005	(8)	0.059	± 0.005	(8)	0.044	± 0.005	(8)
Relative (mg/g)	1.57	± 0.09	(7)	1.65	± 0.14	(7)	1.70	± 0.15	(8)	1.96	± 0.18	(8)	1.44	± 0.15	(8)

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**Males: Study 7**

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	Treatment Groups (mg/kg/day)	
	2500	50 mg/kg MVE
Terminal Body Wt. (g)	30.0 ± 0.8 (7)	31.4 ± 0.9 (8)
Kidneys		
Absolute (g)	0.45 ± 0.01 (5)	0.47 ± 0.02 (8)
Relative (mg/g)	14.87 ± 0.26 (5)	15.01 ± 0.19 (8)
Liver		
Absolute (g)	1.09 ± 0.04 (5)	1.27 ± 0.03 (8) **
Relative (mg/g)	36.21 ± 1.31 (5)	40.42 ± 0.38 (8) **
Lung		
Absolute (g)	0.21 ± 0.01 (5)	0.21 ± 0.01 (8)
Relative (mg/g)	7.05 ± 0.18 (5)	6.55 ± 0.14 (8)
Spleen		
Absolute (g)	0.066 ± 0.005 (5)	0.074 ± 0.003 (8)
Relative (mg/g)	2.20 ± 0.14 (5)	2.37 ± 0.09 (8)
Thymus		
Absolute (g)	0.056 ± 0.006 (5)	0.056 ± 0.004 (8)
Relative (mg/g)	1.88 ± 0.20 (5)	1.77 ± 0.09 (8)

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## LEGEND

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

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Statistical analysis performed by Jonckheere (trend) and Williams or Dunnett (pairwise) tests.

Statistical analysis for the positive control group compared to the vehicle control group was performed using the t-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

AAGM1 = Anti-Asialo GM1 (Rabbit) Antibody

MVE = Maleic Vinyl Ether

**\*\* END OF REPORT \*\***