

Experiment Number: R92025B
Test Type: RACB
Route: Dosing in Feed
Species/Strain: Rat/Sprague-Dawley

PA23: Ovarian Follicles Summary
Test Compound: 4-Methylimidazole
CAS Number: 822-36-6

Date Report Requested: 05/17/2018
Time Report Requested: 12:11:44
Lab: RTI

C Number:	R92025B
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both

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		Female			
Generation	Cohort	Treatment Groups (ppm)			
		0	750	2500	5000
F0	Primordial Ovarian Follicles				
	Left Ovary	19.1 ± 4.3 (15)	20.7 ± 2.7 (15)	21.3 ± 4.3 (15)	28.8 ± 6.1 (12)
	Right Ovary	16.3 ± 3.2 (15) **	19.7 ± 3.2 (15)	20.3 ± 4.2 (15)	34.0 ± 6.6 (12) *
	Total	35.4 ± 6.9 (15) *	40.3 ± 5.3 (15)	41.7 ± 7.1 (15)	62.8 ± 10.9 (12) *
	Primary Ovarian Follicles				
	Left Ovary	9.1 ± 2.3 (15)	10.1 ± 2.2 (15)	8.3 ± 1.9 (15)	6.9 ± 1.5 (12)
	Right Ovary	7.4 ± 2.0 (15)	9.0 ± 1.3 (15)	6.0 ± 1.3 (15)	8.8 ± 1.9 (12)
	Total	16.5 ± 4.3 (15)	19.1 ± 2.3 (15)	14.3 ± 2.9 (15)	15.8 ± 3.2 (12)
	Secondary Ovarian Follicles				
	Left Ovary	6.1 ± 1.0 (15) **	5.1 ± 0.9 (15)	3.1 ± 0.5 (15) *	3.1 ± 0.7 (12) *
	Right Ovary	4.7 ± 1.0 (15)	4.7 ± 0.9 (15)	3.3 ± 0.7 (15)	3.9 ± 1.0 (12)
	Total	10.8 ± 1.8 (15) *	9.7 ± 1.4 (15)	6.4 ± 0.9 (15)	7.0 ± 1.4 (12)
	Antral Ovarian Follicles				
	Left Ovary	4.2 ± 0.9 (15)	6.7 ± 0.8 (15)	3.1 ± 0.5 (15)	6.7 ± 0.9 (12)
	Right Ovary	3.6 ± 0.6 (15) **	4.5 ± 0.7 (15)	3.4 ± 0.7 (15)	7.5 ± 1.2 (12) **
	Total	7.8 ± 1.0 (15) *	11.2 ± 0.9 (15)	6.5 ± 0.9 (15)	14.2 ± 1.6 (12) **
	Atretic Ovarian Follicles				
	Left Ovary	4.9 ± 0.8 (15)	6.6 ± 0.9 (15)	3.0 ± 0.6 (15)	5.8 ± 0.9 (12)
	Right Ovary	3.3 ± 0.9 (15)	6.7 ± 1.1 (15) *	3.5 ± 0.6 (15)	7.4 ± 1.0 (12) *
	Total	8.2 ± 1.4 (15)	13.3 ± 1.8 (15) *	6.5 ± 0.6 (15)	13.2 ± 1.7 (12) *

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			Female	
Generation	Cohort		Treatment Groups (ppm)	
			0	2500
F1	F1 Parental Females	Primordial Ovarian Follicles		
		Left Ovary	14.5 ± 2.8 (12)	22.5 ± 3.3 (9)
		Right Ovary	20.1 ± 3.0 (12)	22.1 ± 2.7 (9)
		Total	34.6 ± 4.2 (12)	44.7 ± 5.7 (9)
		Primary Ovarian Follicles		
		Left Ovary	6.0 ± 1.3 (12)	7.8 ± 1.4 (9)
		Right Ovary	10.5 ± 1.8 (12)	5.9 ± 0.9 (9) *
		Total	16.5 ± 2.0 (12)	13.7 ± 2.2 (9)
		Secondary Ovarian Follicles		
		Left Ovary	3.8 ± 0.7 (12)	6.0 ± 1.0 (9) *
		Right Ovary	5.3 ± 0.6 (12)	5.8 ± 0.7 (9)
		Total	9.0 ± 0.9 (12)	11.8 ± 1.5 (9)
		Antral Ovarian Follicles		
		Left Ovary	3.1 ± 0.5 (12)	4.5 ± 0.8 (9)
		Right Ovary	3.9 ± 0.6 (12)	5.9 ± 0.8 (9)
		Total	7.0 ± 1.0 (12)	10.3 ± 1.4 (9)
		Atretic Ovarian Follicles		
		Left Ovary	4.3 ± 0.6 (12)	4.6 ± 0.7 (9)
		Right Ovary	5.1 ± 0.6 (12)	4.3 ± 0.6 (9)
		Total	9.4 ± 1.0 (12)	8.9 ± 0.6 (9)

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LEGEND

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

Reported means and standard errors for the F1 animals are the means and standard errors of the litter means, and the reported N values are the number of litters used in the calculation.

For the F0 animals, analyses were performed using generalized linear mixed models. The Poisson distribution was assumed.

For the F1 animals, analyses were performed using generalized linear mixed models, with the dam ID as the random effect. The Poisson distribution was assumed.

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 $P \leq 0.01$

**** END OF REPORT ****