Uterine section report with litter -- 0-0, 0-300, 0-1000

NTP Study Number:	C20614		
Lock Date:	01/10/2012		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
	25016 Aborted		
Removal Date Range:	ALL		
Treatment Groups:	Include 002 0/0 ppm	Include 004 0/300 ppm	Include 008 0/1000 ppm
Study Gender:	Both		
TDMSE Version:	2.5.0.0_sfh		
PWG Approval Date:	07/25/2018		

SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF PERFLUOROOCTANOIC ACID

FEMALE RATS

Organ	Morphology
Uterus (Standard Evaluation)	Carcinoma
Uterus (Longitudinal Evaluation)	Carcinoma
Uterus (Standard or Longitudinal Evaluation)	Carcinoma
Uterus (Standard Evaluation)	Carcinoma or Adenoma
Uterus (Longitudinal Evaluation)	Carcinoma or Adenoma
Uterus (Standard or Longitudinal Evaluation)	Carcinoma or Adenoma

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Uterus (Standard Evaluation)			
Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	0/36.81	1/41.88	0/36.88
POLY-3 PERCENT (g)	0%	2.4%	0%
TERMINAL (d)	0/23 (0%)	1/28 (4%)	0/23 (0%)
FIRST INCIDENCE	---	744 (T)	---
STATISTICAL TESTS			
POLY 3	P=0.699N	P=0.526	(e)
POLY 1.5	P=0.702N	P=0.516	(e)
POLY 6	P=0.693N	P=0.535	(e)
RAO-SCOTT	P=0.713N	P=0.593	(e)
LITTER C-A/FISHERS	P=0.698N	P=0.475	(e)

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Longitudinal Evaluation)			
Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	0/50 (0%)
LITTERS (b)	1/32 (3%)	0/29 (0%)	0/31 (0%)
POLY-3 RATE (c)	1/36.81	0/41.88	0/36.88
POLY-3 PERCENT (g)	2.7%	0%	0%
TERMINAL (d)	1/23 (4%)	0/28 (0%)	0/23 (0%)
FIRST INCIDENCE	744 (T)	---	---
STATISTICAL TESTS			
POLY 3	P=0.440N	P=0.474N	P=0.500N
POLY 1.5	P=0.434N	P=0.484N	P=0.504N
POLY 6	P=0.448N	P=0.464N	P=0.491N
RAO-SCOTT	P=0.512N	P=0.576N	P=0.573N
LITTER C-A/FISHERS	P=0.423N	P=0.525N	P=0.508N

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard or Longitudinal Evaluation)			
Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	1/36.81	1/41.88	0/36.88
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	1/23 (4%)	1/28 (4%)	0/23 (0%)
FIRST INCIDENCE	744 (T)	744 (T)	---
STATISTICAL TESTS			
POLY 3	P=0.367N	P=0.732N	P=0.500N
POLY 1.5	P=0.367N	P=0.742N	P=0.504N
POLY 6	P=0.363N	P=0.720N	P=0.491N
RAO-SCOTT	P=0.374N	P=0.712N	P=0.485N
LITTER C-A/FISHERS	P=0.359N	P=0.729	P=0.508N

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard Evaluation) **Carcinoma**			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	1/50 (2%)	4/50 (8%)
LITTERS (b)	0/32 (0%)	1/29 (3%)	4/31 (13%)
POLY-3 RATE (c)	0/36.81	1/41.88	4/37.30
POLY-3 PERCENT (g)	0%	2.4%	10.7%
TERMINAL (d)	0/23 (0%)	1/28 (4%)	1/23 (4%)
FIRST INCIDENCE	---	744 (T)	652
STATISTICAL TESTS			
POLY 3	P=0.024*	P=0.526	P=0.060
POLY 1.5	P=0.023*	P=0.516	P=0.058
POLY 6	P=0.026*	P=0.535	P=0.067
RAO-SCOTT	P=0.048*	P=0.554	P=0.102
LITTER C-A/FISHERS	P=0.026*	P=0.475	P=0.053

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Longitudinal Evaluation)			
Carcinoma			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)	8/50 (16%)
LITTERS (b)	1/32 (3%)	5/29 (17%)	7/31 (23%)
POLY-3 RATE (c)	1/36.81	5/42.06	8/37.58
POLY-3 PERCENT (g)	2.7%	11.9%	21.3%
TERMINAL (d)	1/23 (4%)	4/28 (14%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	695	652
STATISTICAL TESTS			
POLY 3	P=0.016*	P=0.134	P=0.015*
POLY 1.5	P=0.015*	P=0.121	P=0.014*
POLY 6	P=0.020*	P=0.149	P=0.019*
RAO-SCOTT	P=0.028*	P=0.164	P=0.031*
LITTER C-A/FISHERS	P=0.036*	P=0.077	P=0.024*

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard or Longitudinal Evaluation)			
Carcinoma			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	5/50 (10%)	8/50 (16%)
LITTERS (b)	1/32 (3%)	5/29 (17%)	7/31 (23%)
POLY-3 RATE (c)	1/36.81	5/42.06	8/37.58
POLY-3 PERCENT (g)	2.7%	11.9%	21.3%
TERMINAL (d)	1/23 (4%)	4/28 (14%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	695	652
STATISTICAL TESTS			
POLY 3	P=0.016*	P=0.134	P=0.015*
POLY 1.5	P=0.015*	P=0.121	P=0.014*
POLY 6	P=0.020*	P=0.149	P=0.019*
RAO-SCOTT	P=0.028*	P=0.164	P=0.031*
LITTER C-A/FISHERS	P=0.036*	P=0.077	P=0.024*

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard Evaluation) **Carcinoma or Adenoma**			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	2/50 (4%)	4/50 (8%)
LITTERS (b)	0/32 (0%)	2/29 (7%)	4/31 (13%)
POLY-3 RATE (c)	0/36.81	2/41.88	4/37.30
POLY-3 PERCENT (g)	0%	4.8%	10.7%
TERMINAL (d)	0/23 (0%)	2/28 (7%)	1/23 (4%)
FIRST INCIDENCE	---	744 (T)	652
STATISTICAL TESTS			
POLY 3	P=0.048*	P=0.267	P=0.060
POLY 1.5	P=0.046*	P=0.256	P=0.058
POLY 6	P=0.053	P=0.279	P=0.067
RAO-SCOTT	P=0.066	P=0.292	P=0.086
LITTER C-A/FISHERS	P=0.049*	P=0.222	P=0.053

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Longitudinal Evaluation)			
Carcinoma or Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	5/50 (10%)	8/50 (16%)
LITTERS (b)	2/32 (6%)	5/29 (17%)	7/31 (23%)
POLY-3 RATE (c)	2/36.81	5/42.06	8/37.58
POLY-3 PERCENT (g)	5.4%	11.9%	21.3%
TERMINAL (d)	2/23 (9%)	4/28 (14%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	695	652
STATISTICAL TESTS			
POLY 3	P=0.038*	P=0.272	P=0.045*
POLY 1.5	P=0.035*	P=0.251	P=0.041*
POLY 6	P=0.044*	P=0.297	P=0.054
RAO-SCOTT	P=0.052	P=0.289	P=0.065
LITTER C-A/FISHERS	P=0.074	P=0.173	P=0.067

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard or Longitudinal Evaluation)			
Carcinoma or Adenoma			
TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	5/50 (10%)	8/50 (16%)
LITTERS (b)	2/32 (6%)	5/29 (17%)	7/31 (23%)
POLY-3 RATE (c)	2/36.81	5/42.06	8/37.58
POLY-3 PERCENT (g)	5.4%	11.9%	21.3%
TERMINAL (d)	2/23 (9%)	4/28 (14%)	4/23 (17%)
FIRST INCIDENCE	744 (T)	695	652
STATISTICAL TESTS			
POLY 3	P=0.038*	P=0.272	P=0.045*
POLY 1.5	P=0.035*	P=0.251	P=0.041*
POLY 6	P=0.044*	P=0.297	P=0.054
RAO-SCOTT	P=0.052	P=0.289	P=0.065
LITTER C-A/FISHERS	P=0.074	P=0.173	P=0.067

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard Evaluation) **Lymphoma**			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	1/37.44	1/42.38	0/36.88
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	0/23 (0%)
FIRST INCIDENCE	533	589	---
STATISTICAL TESTS			
POLY 3	P=0.370N	P=0.733N	P=0.503N
POLY 1.5	P=0.369N	P=0.743N	P=0.506N
POLY 6	P=0.368N	P=0.721N	P=0.497N
RAO-SCOTT	P=0.385N	P=0.720N	P=0.502N
LITTER C-A/FISHERS	P=0.359N	P=0.729	P=0.508N

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Longitudinal Evaluation)			
Lymphoma			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	1/37.44	1/42.38	0/36.88
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	0/23 (0%)
FIRST INCIDENCE	533	589	---
STATISTICAL TESTS			
POLY 3	P=0.370N	P=0.733N	P=0.503N
POLY 1.5	P=0.369N	P=0.743N	P=0.506N
POLY 6	P=0.368N	P=0.721N	P=0.497N
RAO-SCOTT	P=0.385N	P=0.720N	P=0.502N
LITTER C-A/FISHERS	P=0.359N	P=0.729	P=0.508N

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Uterus (Standard or Longitudinal Evaluation)			
Lymphoma			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	1/50 (2%)	0/50 (0%)
LITTERS (b)	1/32 (3%)	1/29 (3%)	0/31 (0%)
POLY-3 RATE (c)	1/37.44	1/42.38	0/36.88
POLY-3 PERCENT (g)	2.7%	2.4%	0%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	0/23 (0%)
FIRST INCIDENCE	533	589	---
STATISTICAL TESTS			
POLY 3	P=0.370N	P=0.733N	P=0.503N
POLY 1.5	P=0.369N	P=0.743N	P=0.506N
POLY 6	P=0.368N	P=0.721N	P=0.497N
RAO-SCOTT	P=0.385N	P=0.720N	P=0.502N
LITTER C-A/FISHERS	P=0.359N	P=0.729	P=0.508N

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard Evaluation)			
Polyp, Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	6/50 (12%)	4/50 (8%)	5/50 (10%)
LITTERS (b)	5/32 (16%)	4/29 (14%)	5/31 (16%)
POLY-3 RATE (c)	6/37.44	4/42.06	5/37.09
POLY-3 PERCENT (g)	16%	9.5%	13.5%
TERMINAL (d)	4/23 (17%)	3/28 (11%)	3/23 (13%)
FIRST INCIDENCE	574	695	695
STATISTICAL TESTS			
POLY 3	P=0.547N	P=0.296N	P=0.507N
POLY 1.5	P=0.546N	P=0.322N	P=0.518N
POLY 6	P=0.537N	P=0.271N	P=0.482N
RAO-SCOTT	P=0.530N	P=0.307N	P=0.494N
LITTER C-A/FISHERS	P=0.552	P=0.565N	P=0.613

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Longitudinal Evaluation)			
Polyp, Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	16/50 (32%)	11/50 (22%)	13/50 (26%)
LITTERS (b)	13/32 (41%)	10/29 (34%)	12/31 (39%)
POLY-3 RATE (c)	16/38.62	11/43.02	13/37.80
POLY-3 PERCENT (g)	41.4%	25.6%	34.4%
TERMINAL (d)	9/23 (39%)	9/28 (32%)	9/23 (39%)
FIRST INCIDENCE	574	250	540
STATISTICAL TESTS			
POLY 3	P=0.445N	P=0.095N	P=0.342N
POLY 1.5	P=0.443N	P=0.118N	P=0.357N
POLY 6	P=0.431N	P=0.081N	P=0.318N
RAO-SCOTT	P=0.434N	P=0.110N	P=0.343N
LITTER C-A/FISHERS	P=0.550N	P=0.410N	P=0.541N

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard or Longitudinal Evaluation)			
Polyp, Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	16/50 (32%)	11/50 (22%)	13/50 (26%)
LITTERS (b)	13/32 (41%)	10/29 (34%)	12/31 (39%)
POLY-3 RATE (c)	16/38.62	11/43.02	13/37.80
POLY-3 PERCENT (g)	41.4%	25.6%	34.4%
TERMINAL (d)	9/23 (39%)	9/28 (32%)	9/23 (39%)
FIRST INCIDENCE	574	250	540
STATISTICAL TESTS			
POLY 3	P=0.445N	P=0.095N	P=0.342N
POLY 1.5	P=0.443N	P=0.118N	P=0.357N
POLY 6	P=0.431N	P=0.081N	P=0.318N
RAO-SCOTT	P=0.434N	P=0.110N	P=0.343N
LITTER C-A/FISHERS	P=0.550N	P=0.410N	P=0.541N

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard Evaluation)			
Sarcoma Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/31 (3%)
POLY-3 RATE (c)	0/36.81	0/41.88	1/37.15
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
STATISTICAL TESTS			
POLY 3	P=0.302	(e)	P=0.502
POLY 1.5	P=0.298	(e)	P=0.497
POLY 6	P=0.310	(e)	P=0.511
RAO-SCOTT	P=0.409	(e)	P=0.578
LITTER C-A/FISHERS	P=0.302	(e)	P=0.492

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Uterus (Longitudinal Evaluation)			
Sarcoma Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	1/32 (3%)	0/29 (0%)	2/31 (6%)
POLY-3 RATE (c)	1/37.07	0/41.88	2/37.15
POLY-3 PERCENT (g)	2.7%	0%	5.4%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	1/23 (4%)
FIRST INCIDENCE	673	---	669
STATISTICAL TESTS			
POLY 3	P=0.301	P=0.476N	P=0.501
POLY 1.5	P=0.301	P=0.484N	P=0.494
POLY 6	P=0.305	P=0.467N	P=0.515
RAO-SCOTT	P=0.332	P=0.500N	P=0.502
LITTER C-A/FISHERS	P=0.311	P=0.525N	P=0.488

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Uterus (Standard or Longitudinal Evaluation)			
Sarcoma Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	1/50 (2%)	0/50 (0%)	2/50 (4%)
LITTERS (b)	1/32 (3%)	0/29 (0%)	2/31 (6%)
POLY-3 RATE (c)	1/37.07	0/41.88	2/37.15
POLY-3 PERCENT (g)	2.7%	0%	5.4%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	1/23 (4%)
FIRST INCIDENCE	673	---	669
STATISTICAL TESTS			
POLY 3	P=0.301	P=0.476N	P=0.501
POLY 1.5	P=0.301	P=0.484N	P=0.494
POLY 6	P=0.305	P=0.467N	P=0.515
RAO-SCOTT	P=0.332	P=0.500N	P=0.502
LITTER C-A/FISHERS	P=0.311	P=0.525N	P=0.488

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Uterus (Standard Evaluation)			
Sarcoma Stromal or Polyp Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	6/50 (12%)	4/50 (8%)	6/50 (12%)
LITTERS (b)	5/32 (16%)	4/29 (14%)	5/31 (16%)
POLY-3 RATE (c)	6/37.44	4/42.06	6/37.36
POLY-3 PERCENT (g)	16%	9.5%	16.1%
TERMINAL (d)	4/23 (17%)	3/28 (11%)	3/23 (13%)
FIRST INCIDENCE	574	695	669
STATISTICAL TESTS			
POLY 3	P=0.494	P=0.296N	P=0.622
POLY 1.5	P=0.490	P=0.322N	P=0.607
POLY 6	P=0.511	P=0.271N	P=0.596N
RAO-SCOTT	P=0.498	P=0.323N	P=0.605
LITTER C-A/FISHERS	P=0.552	P=0.565N	P=0.613

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Uterus (Longitudinal Evaluation)			
Sarcoma Stromal or Polyp Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	16/50 (32%)	11/50 (22%)	15/50 (30%)
LITTERS (b)	13/32 (41%)	10/29 (34%)	13/31 (42%)
POLY-3 RATE (c)	16/38.62	11/43.02	15/38.07
POLY-3 PERCENT (g)	41.4%	25.6%	39.4%
TERMINAL (d)	9/23 (39%)	9/28 (32%)	10/23 (44%)
FIRST INCIDENCE	574	250	540
STATISTICAL TESTS			
POLY 3	P=0.481	P=0.095N	P=0.521N
POLY 1.5	P=0.479	P=0.118N	P=0.537N
POLY 6	P=0.502	P=0.081N	P=0.488N
RAO-SCOTT	P=0.483	P=0.114N	P=0.509N
LITTER C-A/FISHERS	P=0.477	P=0.410N	P=0.560

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Uterus (Standard or Longitudinal Evaluation)			
Sarcoma Stromal or Polyp Stromal			
TUMOR RATES	#	#	#
OVERALL (a)	16/50 (32%)	11/50 (22%)	15/50 (30%)
LITTERS (b)	13/32 (41%)	10/29 (34%)	13/31 (42%)
POLY-3 RATE (c)	16/38.62	11/43.02	15/38.07
POLY-3 PERCENT (g)	41.4%	25.6%	39.4%
TERMINAL (d)	9/23 (39%)	9/28 (32%)	10/23 (44%)
FIRST INCIDENCE	574	250	540
STATISTICAL TESTS			
POLY 3	P=0.481	P=0.095N	P=0.521N
POLY 1.5	P=0.479	P=0.118N	P=0.537N
POLY 6	P=0.502	P=0.081N	P=0.488N
RAO-SCOTT	P=0.483	P=0.114N	P=0.509N
LITTER C-A/FISHERS	P=0.477	P=0.410N	P=0.560

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

	Females		
DOSE	**0/0 ppm**	**0/300 ppm**	**0/1000 ppm**
Vagina (Longitudinal Evaluation)			
Granular Cell Tumor			
TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	4/50 (8%)
LITTERS (b)	2/32 (6%)	1/29 (3%)	4/31 (13%)
POLY-3 RATE (c)	2/36.96	1/41.88	4/37.67
POLY-3 PERCENT (g)	5.4%	2.4%	10.6%
TERMINAL (d)	1/23 (4%)	1/28 (4%)	2/23 (9%)
FIRST INCIDENCE	705	744 (T)	505
STATISTICAL TESTS			
POLY 3	P=0.189	P=0.456N	P=0.344
POLY 1.5	P=0.187	P=0.472N	P=0.332
POLY 6	P=0.196	P=0.441N	P=0.366
RAO-SCOTT	P=0.206	P=0.449N	P=0.344
LITTER C-A/FISHERS	P=0.194	P=0.537N	P=0.321

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Vagina (Standard or Longitudinal Evaluation)			
Granular Cell Tumor			
TUMOR RATES	#	#	#
OVERALL (a)	2/50 (4%)	1/50 (2%)	4/50 (8%)
LITTERS (b)	2/32 (6%)	1/29 (3%)	4/31 (13%)
POLY-3 RATE (c)	2/36.96	1/41.88	4/37.67
POLY-3 PERCENT (g)	5.4%	2.4%	10.6%
TERMINAL (d)	1/23 (4%)	1/28 (4%)	2/23 (9%)
FIRST INCIDENCE	705	744 (T)	505
STATISTICAL TESTS			
POLY 3	P=0.189	P=0.456N	P=0.344
POLY 1.5	P=0.187	P=0.472N	P=0.332
POLY 6	P=0.196	P=0.441N	P=0.366
RAO-SCOTT	P=0.206	P=0.449N	P=0.344
LITTER C-A/FISHERS	P=0.194	P=0.537N	P=0.321

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Vagina (Standard Evaluation)			
Squamous Cell Carcinoma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/31 (3%)
POLY-3 RATE (c)	0/36.81	0/41.88	1/37.15
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
STATISTICAL TESTS			
POLY 3	P=0.302	(e)	P=0.502
POLY 1.5	P=0.298	(e)	P=0.497
POLY 6	P=0.310	(e)	P=0.511
RAO-SCOTT	P=0.409	(e)	P=0.578
LITTER C-A/FISHERS	P=0.302	(e)	P=0.492

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Vagina (Standard or Longitudinal Evaluation)			
Squamous Cell Carcinoma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/31 (3%)
POLY-3 RATE (c)	0/36.81	0/41.88	1/37.15
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	0/23 (0%)
FIRST INCIDENCE	---	---	669
STATISTICAL TESTS			
POLY 3	P=0.302	(e)	P=0.502
POLY 1.5	P=0.298	(e)	P=0.497
POLY 6	P=0.310	(e)	P=0.511
RAO-SCOTT	P=0.409	(e)	P=0.578
LITTER C-A/FISHERS	P=0.302	(e)	P=0.492

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Vagina (Longitudinal Evaluation)			
Squamous Cell Papilloma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/31 (3%)
POLY-3 RATE (c)	0/36.81	0/41.88	1/36.88
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
STATISTICAL TESTS			
POLY 3	P=0.300	(e)	P=0.500
POLY 1.5	P=0.298	(e)	P=0.496
POLY 6	P=0.307	(e)	P=0.509
RAO-SCOTT	P=0.417	(e)	P=0.586
LITTER C-A/FISHERS	P=0.302	(e)	P=0.492

STATISTICAL ANALYSIS OF PRIMARY TUMORS IN RATS(HSD)
TERMINAL SACRIFICE AT 107 WEEKS

Females

DOSE	0/0 ppm	0/300 ppm	0/1000 ppm
Vagina (Standard or Longitudinal Evaluation)			
Squamous Cell Papilloma			
TUMOR RATES	#	#	#
OVERALL (a)	0/50 (0%)	0/50 (0%)	1/50 (2%)
LITTERS (b)	0/32 (0%)	0/29 (0%)	1/31 (3%)
POLY-3 RATE (c)	0/36.81	0/41.88	1/36.88
POLY-3 PERCENT (g)	0%	0%	2.7%
TERMINAL (d)	0/23 (0%)	0/28 (0%)	1/23 (4%)
FIRST INCIDENCE	---	---	744 (T)
STATISTICAL TESTS			
POLY 3	P=0.300	(e)	P=0.500
POLY 1.5	P=0.298	(e)	P=0.496
POLY 6	P=0.307	(e)	P=0.509
RAO-SCOTT	P=0.417	(e)	P=0.586
LITTER C-A/FISHERS	P=0.302	(e)	P=0.492

LEGEND

(a)	Number of tumor-bearing animals/number of animals examined at site.
(b)	Number of litters with tumor-bearing animals/number of litters examined at site
(c)	Number of tumor-bearing animals/Poly-3 number
(d)	Observed incidence at terminal kill.
(e)	Value of statistic cannot be computed.
(f)	Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
(g)	Poly-3 adjusted lifetime tumor incidence.
(I)	Interim sacrifice
(T)	Terminal sacrifice
#	Tumor rates based on numbers of animals necropsied.
*	To the right of any statistical result, indicates significance at (P<=0.05).
**	To the right of any statistical result, indicates significance at (P<=0.01).
N	Indicates a negative trend for all tests
	The Rao-Scott statistic performs the Poly-3 test with an adjustment for within-litter correlation.
	The Litter C-A/Fishers statistic compares directly the litter incidence rates.

*** END OF REPORT ***