

RJR INTER-OFFICE MEMORANDUM

To: Ms. Becky Turlington

Date: September 21, 1989

From: Ms. Cindy Fulp

Objective: To determine the mutagenicity of two mainstream pad extracts in the Ames assay.

Samples:	<u>Sample Code</u>	<u>Sample Description</u>	<u>mg tar/pad</u>	<u>cig/pad</u>
	CT1887 AA	Control - Winston KS	89.1	5
	CT1887 AD	Winston KS with sugar enriched G7AE	86.9	5

Doses: Samples were tested at 0, 25, 50, 75, 100, 125, and 250 ug/plate.

S-9: 5% Lot #1012

Strains: TA98 and TA100

Results:	<u>Sample Code</u>	Strain TA98		Strain TA100	
		<u>rev/mg tar*</u>	<u>rev/cig**</u>	<u>rev/mg tar</u>	<u>rev/cig</u>
	CT1887 AA	1004	17891	528	9409
	CT1887 AD	1048	18214	579	10063

*rev/mg tar = revertants per mg tar

**rev/cig = revertants per cigarette

Please feel free to discuss these results with our lab.

Cindy Fulp

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xc: Dr. C.K. Lee
Dr. G.T. Burger

51495 0573

17	349	+	19.3	3.2	345.7	10.4

		MEAN		S.D.		

1346 swimming

24	25.3	12.1	50.7	9.0	92.7	11.7
42	130.3	9.6	166.7	9.7	186.3	23.9
84	197.0	8.7	197.0	8.7	197.0	8.7
139	191	179	169	139	84	42
169	179	169	139	84	42	24
179	169	139	84	42	24	25.3
191	130.3	9.6	166.7	9.7	186.3	23.9

		MEAN		S.D.		

248 swimming

19	22.3	3.1	48.3	4.0	66.0	8.2
44	89.0	3.0	129.7	7.6	161.7	13.9
75	196.7	19.1	196.7	19.1	196.7	19.1
86	181	150	123	86	75	44
123	150	123	86	75	44	19
150	123	86	75	44	19	22.3
181	89.0	3.0	129.7	7.6	161.7	13.9

		MEAN		S.D.		

204 swimming

20	24.7	5.7	53.3	7.1	75.7	11.6
61	95.3	5.1	129.0	13.1	136.7	5.1
68	194.3	17.2	194.3	17.2	194.3	17.2
91	210	141	120	91	68	61
120	141	120	91	68	61	20
141	120	91	68	61	20	24.7
210	95.3	5.1	129.0	13.1	136.7	5.1

		MEAN		S.D.		

CT1887AA/5%S9/100/09-19-89

25; 490-510

DOSE-ug	PLATE COUNTS			MEAN	S.D.
.0000	80	74	86	80.0	6.0
25.0000	103	93	97	97.7	5.0
50.0000	135	120	94	116.3	20.7
75.0000	133	102	108	114.3	16.4
100.0000	136	142	131	136.3	5.5
125.0000	154	125	165	148.0	20.7
250.0000	156	187	202	181.7	23.5

SLOPE= .5279071E+00

528 ewlmg tar

CT1887AD/5%S9/100/09-19-89

26; 511-531

DOSE-ug	PLATE COUNTS			MEAN	S.D.
.0000	72	71	89	77.3	10.1
25.0000	74	91	72	79.0	10.4
50.0000	99	95	75	89.7	12.9
75.0000	131	122	131	128.0	5.2
100.0000	127	107	147	127.0	20.0
125.0000	170	136	124	143.3	23.9
250.0000	172	142	175	163.0	18.2

SLOPE= .5794724E+00

579 ewlmg tar

1R4F/5%S9/100/09-19-89

27; 532-552

DOSE-ug	PLATE COUNTS			MEAN	S.D.
.0000	71	83	79	77.7	6.1
25.0000	107	95	81	94.3	13.0
50.0000	104	107	136	115.7	17.7
75.0000	138	136	121	131.7	9.3
100.0000	160	156	106	140.7	30.1
125.0000	145	139	158	147.3	9.7
250.0000	146	192	183	173.7	24.4

SLOPE= .6785797E+00

679 ewlmg tar

2AA/5%S9/100/09-19-89

28; 553-558

DOSE-ug	PLATE COUNTS			MEAN	S.D.
.0000	85	91	92	89.3	3.8
.5000	451	505	548	501.3	48.6

OF PROGRAM

51495 0575