

Table 4. Test material intake data (mg/kg/day, mean) and total propolis intake (mg/kg) Summed data from week 1 to week 101

SEX	GROUP	TEST MATERIAL	DOSE (%)	NO. OF ANIMALS	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9
Male	1	Propolis	0	50	0	0	0	0	0	0	0	0	0
Male	2	Propolis	0.5	50	1059.30	515.75	467.39	412.54	374.87	357.95	314.01	336.47	285.46
Male	3	Propolis	2.5	50	4472.45	2698.16	2398.37	2059.74	2138.79	2014.27	1678.65	1846.41	1486.51
Female	4	Propolis	0	50	0	0	0	0	0	0	0	0	0
Female	5	Propolis	0.5	50	968.60	498.59	483.16	440.54	470.91	429.59	407.30	437.13	358.43
Female	6	Propolis	2.5	50	2521.48	2465.58	2348.39	2202.83	2094.08	2070.87	1889.34	1856.23	1711.86

Table 4. Test material intake data (mg/kg/day, mean) and total propolis intake (mg/kg) Summed data from week 1 to week 101

SEX	GROUP	TEST MATERIAL	DOSE(%)	NO. OF ANIMALS	WEEK 10	WEEK 11	WEEK 12	WEEK 13	WEEK 17	WEEK 21	WEEK 25	WEEK 29	WEEK 33
Male	1	Propolis	0	50	0	0	0	0	0	0	0	0	0
Male	2	Propolis	0.5	50	274.66	264.59	261.87	250.67	237.67	210.40	234.13	208.22	226.62
Male	3	Propolis	2.5	50	1463.86	1374.50	1382.92	268.84	1424.56	1203.83	1293.39	1241.54	1132.34
Female	4	Propolis	0	50	0	0	0	0	0	0	0	0	0
Female	5	Propolis	0.5	50	376.75	389.90	321.72	334.95	326.02	312.15	415.96	304.66	303.66
Female	6	Propolis	2.5	50	1746.45	1647.99	1645.01	356.91	1547.83	1624.78	1772.29	1468.63	1639.31

Table 4. Test material intake data (mg/kg/day, mean) and total propolis intake (mg/kg) Summed data from week 1 to week 101

SEX	GROUP	TEST MATERIAL	DOSE (%)	NO. OF ANIMALS	WEEK 37	WEEK 41	WEEK 45	WEEK 49	WEEK 53	WEEK 57	WEEK 61	WEEK 65	WEEK 70
Male	1	Propolis	0	50	0	0	0	0	0	0	0	0	0
Male	2	Propolis	0.5	50	259.29	222.72	255.58	229.21	226.18	248.32	219.68	234.00	224.00
Male	3	Propolis	2.5	50	1403.63	1382.44	1373.26	1133.03	1202.91	1213.22	1154.43	237.68	1127.18
Female	4	Propolis	0	50	0	0	0	0	0	0	0	0	0
Female	5	Propolis	0.5	50	372.75	389.91	327.42	366.26	353.57	286.99	240.21	299.60	237.09
Female	6	Propolis	2.5	50	1817.53	1498.80	1657.25	1785.71	1760.22	1351.99	1394.73	249.83	1154.43

Table 4. Test material intake data (mg/kg/day, mean) and total propolis intake (mg/kg) Summed data from week 1 to week 101

SEX	GROUP	TEST MATERIAL	DOSE (%)	NO. OF ANIMALS	WEEK 74	WEEK 77	WEEK 82	WEEK 85	WEEK 89	WEEK 93	WEEK 97	WEEK 101
Male	1	Propolis	0	50	0	0	0	0	0	0	0	0
Male	2	Propolis	0.5	50	212.426	216.33	202.36	211.62	210.97	189.16	197.48	197.66
Male	3	Propolis	2.5	50	1180.672	1219.68	1045.32	1299.70	1084.09	1157.03	1248.90	1245.83
Female	4	Propolis	0	50	0	0	0	0	0	0	0	0
Female	5	Propolis	0.5	50	256.341	244.14	228.45	270.26	289.80	221.02	242.66	215.99
Female	6	Propolis	2.5	50	1508.394	1623.54	1200.13	1547.24	1271.13	1253.49	1259.62	1596.19

Table 4. Test material intake data (mg/kg/day, mean) and total propolis intake (mg/kg) Summed data from week 1 to week 101

SEX	GROUP	TEST MATERIAL	DOSE (%)	NO. OF ANIMALS	Total intake (mg/kg)
Male	1	Propolis	0	50	0
Male	2	Propolis	0.5	50	10049.57
Male	3	Propolis	2.5	50	51288.13
Female	4	Propolis	0	50	0.00
Female	5	Propolis	0.5	50	12422.47
Female	6	Propolis	2.5	50	56540.10

Table 5. Final body weight and absolute (g) and relative (g/100gB.W) organ weights (MEAN  $\pm$  S.D.) Terminal; sacrifice

Sex Group	Test material	Dose %	Final body weight	Organ weight	No. examined	Heart	Liver	Spleen	Kidney(R)
Male	1 Propolis	0	578.3 $\pm$ 90.2	absolute	(40)	1.4800 $\pm$ 0.2821	16.4104 $\pm$ 3.5998	1.2438 $\pm$ 0.3448	1.6933 $\pm$ 0.5311
				relative	(40)	0.2592 $\pm$ 0.048	2.826 $\pm$ 0.384	0.2158 $\pm$ 0.0515	0.2955 $\pm$ 0.0869
Male	2 Propolis	0.5	597.3 $\pm$ 67.3	absolute	(46)	1.4198 $\pm$ 0.2009	16.0860 $\pm$ 2.8947	1.2161 $\pm$ 0.3539	1.5795 $\pm$ 0.3161
				relative	(46)	0.2391 $\pm$ 0.032	2.690 $\pm$ 0.354	0.2037 $\pm$ 0.0536	0.2649 $\pm$ 0.0458
Male	3 Propolis	2.5	566.3 $\pm$ 91.1	absolute	(41)	1.3815 $\pm$ 0.1646	16.2999 $\pm$ 2.9536	1.0927 $\pm$ 0.3161	1.6772 $\pm$ 0.3377
				relative	(41)	0.2425 $\pm$ 0.029	2.831 $\pm$ 0.320	0.1889 $\pm$ 0.041	0.2934 $\pm$ 0.0535
Female	4 Propolis	0	409.5 $\pm$ 77.3	absolute	(32)	1.0068 $\pm$ 0.1352	11.0280 $\pm$ 2.7725	0.8692 $\pm$ 0.4639	1.1180 $\pm$ 0.1712
				relative	(32)	0.2516 $\pm$ 0.047	2.674 $\pm$ 0.406	0.2128 $\pm$ 0.0927	0.2793 $\pm$ 0.0540
Female	5 Propolis	0.5	402.9 $\pm$ 79.0	absolute	(37)	1.3066 $\pm$ 1.8352	10.6803 $\pm$ 3.3854	0.9262 $\pm$ 0.3115	1.1655 $\pm$ 0.1526
				relative	(37)	0.3226 $\pm$ 0.082	2.637 $\pm$ 0.613	0.2328 $\pm$ 0.0813	0.2972 $\pm$ 0.0691
Female	6 Propolis	2.5	325.0 $\pm$ 69.4	absolute	(41)	0.9216 $\pm$ 0.1535	9.1467 $\pm$ 1.7132	0.7089 $\pm$ 0.2860	1.0019 $\pm$ 0.1622
				relative	(41)	0.2877 $\pm$ 0.037	2.848 $\pm$ 0.397	0.2216 $\pm$ 0.0888	0.3157 $\pm$ 0.0586

Table 5. Final body weight and absolute (g) and relative (g/100gB.W) organ weights (MEAN  $\pm$  S.D.) Terminal; sacrifice

Sex	Group	Test material	Dose %	Organ weight	No. examined	Kidney(L)	Adrenal(R)	Adrenal(L)	Brain
Male	1	Propolis	0	absolute	(40)	1.6498 $\pm$ 0.4264	0.0560 $\pm$ 0.1103	0.0373 $\pm$ 0.0144	2.2463 $\pm$ 0.1460
				relative	(40)	0.2882 $\pm$ 0.0697	0.0101 $\pm$ 0.0208	0.0066 $\pm$ 0.0029	0.397 $\pm$ 0.061
Male	2	Propolis	0.5	absolute	(46)	1.5142 $\pm$ 0.3598	0.0328 $\pm$ 0.0076	0.0848 $\pm$ 0.3523	2.2057 $\pm$ 0.2885
				relative	(46)	0.2540 $\pm$ 0.0550	0.0055 $\pm$ 0.0014	0.0144 $\pm$ 0.0598	0.373 $\pm$ 0.060
Male	3	Propolis	2.5	absolute	(41)	1.8370 $\pm$ 1.2102	0.0329 $\pm$ 0.0133	0.0337 $\pm$ 0.0219	2.2231 $\pm$ 0.1198
				relative	(41)	0.3176 $\pm$ 0.1777	0.0057 $\pm$ 0.0019	0.0058 $\pm$ 0.0031	0.394 $\pm$ 0.059
Female	4	Propolis	0	absolute	(32)	1.0679 $\pm$ 0.1625	0.0361 $\pm$ 0.0070	0.0382 $\pm$ 0.0131	2.0268 $\pm$ 0.1107
				relative	(32)	0.2660 $\pm$ 0.0439	0.0091 $\pm$ 0.0023	0.0097 $\pm$ 0.0045	0.514 $\pm$ 0.111
Female	5	Propolis	0.5	absolute	(37)	1.0828 $\pm$ 0.2293	0.0381 $\pm$ 0.0099	0.0413 $\pm$ 0.0122	2.0715 $\pm$ 0.0902
				relative	(37)	0.2764 $\pm$ 0.0771	0.0097 $\pm$ 0.0032	0.0105 $\pm$ 0.0033	0.530 $\pm$ 0.102
Female	6	Propolis	2.5	absolute	(41)	0.9652 $\pm$ 0.1564	0.0323 $\pm$ 0.0130	0.0342 $\pm$ 0.0110	2.0506 $\pm$ 0.1017
				relative	(41)	0.3051 $\pm$ 0.0614	0.0102 $\pm$ 0.0042	0.0107 $\pm$ 0.0033	0.655 $\pm$ 0.128

Table 5. Final body weight and absolute (g) and relative (g/100gB.W) organ weights (MEAN  $\pm$  S.D.) Terminal; sacrifice

Sex	Group	Test material	Dose %	Organ weight	No. examined	Thymus	Lung(R)	Lung(L)	Testis(R)	Testis(L)
Male	1	Propolis	0	absolute	(40)	0.1488 $\pm$ 0.1223	1.0922 $\pm$ 0.2103	0.5628 $\pm$ 0.1300	1.7770 $\pm$ 0.3454	1.7637 $\pm$ 0.3648
				relative	(40)	0.025 $\pm$ 0.019	0.1921 $\pm$ 0.0383	0.0987 $\pm$ 0.0217	0.3110 $\pm$ 0.0645	0.3088 $\pm$ 0.0649
Male	2	Propolis	0.5	absolute	(44)	1.0562 $\pm$ 4.0410	1.0439 $\pm$ 0.1476	0.5375 $\pm$ 0.0760	1.8332 $\pm$ 0.2389	1.7994 $\pm$ 0.2591
				relative	(44)	0.212 $\pm$ 0.846	0.1758 $\pm$ 0.0240	0.0906 $\pm$ 0.0118	0.3093 $\pm$ 0.0427	0.3043 $\pm$ 0.0497
Male	3	Propolis	2.5	absolute	(40)	0.4630 $\pm$ 2.0887	1.0328 $\pm$ 0.1208	0.5254 $\pm$ 0.0541	1.7759 $\pm$ 0.3639	1.7728 $\pm$ 0.3951
				relative	(40)	0.077 $\pm$ 0.341	0.1818 $\pm$ 0.0247	0.0927 $\pm$ 0.0131	0.3137 $\pm$ 0.0746	0.3160 $\pm$ 0.0891
Female	4	Propolis	0	absolute	(32)	0.1485 $\pm$ 0.1222	0.7256 $\pm$ 0.0973	0.4093 $\pm$ 0.1002	---	---
				relative	(32)	0.037 $\pm$ 0.029	0.1828 $\pm$ 0.0423	0.1048 $\pm$ 0.0435	---	---
Female	5	Propolis	0.5	absolute	(37)	0.5424 $\pm$ 2.6921	0.7847 $\pm$ 0.1010	0.4208 $\pm$ 0.0561	---	---
				relative	(37)	0.130 $\pm$ 0.636	0.1997 $\pm$ 0.0421	0.1073 $\pm$ 0.0230	---	---
Female	6	Propolis	2.5	absolute	(41)	0.8791 $\pm$ 3.5481	0.7226 $\pm$ 0.0672	0.3716 $\pm$ 0.0325	---	---
				relative	(41)	0.251 $\pm$ 1.000	0.2298 $\pm$ 0.0426	0.1181 $\pm$ 0.0214	---	---



Table 6. Hematological findings in Wister Hannover male and female rats treated with Propolis

Sex	Group	Treatment	Dose (%)	No. of rats	WBC /μl	RBC 10 <sup>4</sup> μl	Hb g/dL	Ht %	MCV fL	MCH pg	MCHC g/dl	PLT 10 <sup>10</sup> /L
Male	1	Propolis	0	10	Mean	3821.05	14.19	43.56	55.53	18.09	32.59	84.08
					SD	5151.71	0.85	2.69	2.66	0.70	0.86	12.67
Male	2	Propolis	0.5	10	Mean	3602.33	14.26	43.91	54.81	17.83	32.51	82.69
					SD	2952.44	47.73	0.82	2.67	2.17	0.62	1.07
Male	3	Propolis	2.5	10	Mean	3224.39	14.36	43.75	54.39	17.84	32.83	81.69
					SD	1643.89	34.35	0.51	1.64	2.46	0.73	0.75
Female	4	Propolis	0	10	Mean	2309.68	13.92	43.03	60.35	19.48	32.28	73.07
					SD	1027.73	75.20	1.46	3.82	3.30	0.73	1.39
Female	5	Propolis	0.5	10	Mean	2959.46	13.60	42.26	60.11	19.35	32.16	71.72
					SD	2550.43	84.52	1.45	4.20	3.04	0.88	1.03
Female	6	Propolis	2.5	10	Mean	3290.24	12.75	39.74	59.07	18.89	32.00	78.63
					SD	2431.95	120.75	2.10	6.09	5.48	1.61	1.58

Table 6. Hematological findings in Wister Hannover male and female rats treated with Propolis

Sex	Group	Treatment	Dose (%)	No. of rats	白血球像							
					Stability	SEG	Lymphocyte	Monocyte	Eosinophil	Basophil	A-Lymphocyte	
Male	1	Propolis	0	10	Mean	36.26	58.76	2.71	1.21	0.00	0.00	1.00
					SD	15.46	15.78	1.37	1.02	0.00	0.00	0.00
Male	2	Propolis	0.5	10	Mean	29.28	66.77	2.12	1.05	0.00	0.00	1.00
					SD	10.22	10.65	1.35	1.13	0.00	0.00	0.00
Male	3	Propolis	2.5	10	Mean	27.88	68.27	1.66	1.41	0.02	0.02	1.00
					SD	11.01	11.55	1.39	1.16	0.16	0.16	0.00
Female	4	Propolis	0	10	Mean	36.32	59.81	1.81	1.10	0.00	0.00	1.00
					SD	10.48	10.49	0.91	1.22	0.00	0.00	0.00
Female	5	Propolis	0.5	10	Mean	33.38	62.38	2.03	1.30	0.00	0.00	1.00
					SD	15.11	16.65	1.76	1.87	0.00	0.00	0.00
Female	6	Propolis	2.5	10	Mean	36.34	60.20	1.71	1.02	0.02	0.02	1.00
					SD	17.74	19.13	1.23	1.01	0.16	0.16	0.00

Table 7. Biochemical findings in Wister Hannover male and female rats treated with Propolis

Sex	Group	Treatment	Dose (%)	No. of rats	T-BiL mg/dL	AST IU/L	ALT IU/L	ALP IU/L	$\gamma$ -GTP IU/L	TP g/dL	ALB g/dL
Male	1	Propolis	0	10	Mean 0.20	174.30	223.10	249.60	1.00	6.86	2.95
					SD 0.00	103.58	363.29	126.16	0.00	0.46	0.22
Male	2	Propolis	0.5	10	Mean 0.20	118.80	40.20	194.80	1.20	6.68	2.92
					SD 0.00	44.08	17.59	78.34	0.63	0.37	0.13
Male	3	Propolis	2.5	10	Mean 0.20	103.90	34.40	213.10	1.60	6.56	3.05
					SD 0.00	31.53	19.20	104.84	0.70	0.23	0.14
Female	4	Propolis	0	10	Mean 0.20	98.10	35.00	104.50	2.30	6.93	3.24
					SD 0.00	16.54	11.66	64.46	3.47	0.32	0.25
Female	5	Propolis	0.5	10	Mean 0.20	121.70	39.50	124.20	1.00	6.77	3.07
					SD 0.00	35.47	19.93	47.30	0.00	0.53	0.34
Female	6	Propolis	2.5	10	Mean 0.20	148.10	55.50	159.70	1.30	6.86	3.37
					SD 0.00	137.62	83.70	177.99	0.95	0.65	0.38

Table 7. Biochemical findings in Wister Hannover male and female rats treated with Propolis

Sex	Group	Treatment	Dose (%)	No. of rats	A/G	Cre mg/dL	BUN mg/dL	T-Cho mg/dL	TG mg/dL	Na mEq/L	K mEq/L
Male	1	Propolis	0	10	Mean	0.35	16.30	161.20	241.20	145.00	4.69
					SD	0.05	2.83	71.09	154.90	1.25	1.52
Male	2	Propolis	0.5	10	Mean	0.32	16.50	138.40	174.78	143.80	4.43
					SD	0.03	2.12	49.86	58.85	1.23	0.29
Male	3	Propolis	2.5	10	Mean	0.34	18.20	115.50	205.60	145.30	4.46
					SD	0.09	1.03	54.26	168.08	1.64	0.21
Female	4	Propolis	0	10	Mean	0.29	16.90	96.20	353.80	142.60	4.08
					SD	0.07	3.67	36.08	477.18	2.12	0.61
Female	5	Propolis	0.5	10	Mean	0.30	17.40	95.40	131.00	142.60	3.97
					SD	0.04	4.65	18.95	75.07	1.90	0.29
Female	6	Propolis	2.5	10	Mean	0.34	18.60	73.5 <sup>a</sup>	57.5 <sup>a</sup>	142.10	4.82
					SD	0.05	4.01	18.50	27.42	1.91	1.47

<sup>a</sup> Significant and P < 0.05 v.s. G4 (female control diet group)

Table 7. Biochemical findings in Wister Hannover male and female rats treated with Propolis

Sex	Group	Treatment	Dose (%)	No. of rats	Cl mEq/L	Ca mEq/L	IP mg/dL
Male	1	Propolis	0	10	Mean 100.80	10.88	6.08
					SD 3.46	0.53	1.69
Male	2	Propolis	0.5	10	Mean 101.80	10.65	5.24
					SD 3.29	0.25	0.69
Male	3	Propolis	2.5	10	Mean 103.70	10.67	5.56
					SD 1.77	0.24	0.59
Female	4	Propolis	0	10	Mean 100.60	10.79	5.08
					SD 2.46	0.43	0.74
Female	5	Propolis	0.5	10	Mean 99.10	10.73	5.63
					SD 3.25	0.38	0.84
Female	6	Propolis	2.5	10	Mean 101.10	10.64	5.45
					SD 2.96	0.38	1.69

Table 8

STUDY NO. 04AI

プロボリスの発がん性試験

## SUMMARY OF GROSS PATHOLOGY DATA

## - TERMINAL SACRIFICE AND FOUND DEAD OR MORIBUND SACRIFICE

ORGAN AND FINDINGS	NO. OF ANIMALS EXAMINED --	DOSE (%) --		MALE		MALE		FEMALE		FEMALE	
		Group1	Group2	Group2	Group3	Group4	Group5	Group6	Group5	Group6	
Heart		0	0.5	50	2.5	0	50	0	0.5	50	2.5
		(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)
Normal		49	50	50	50	49	50	49	49	49	49
Enlargement		0	0	0	0	1	0	0	0	0	1
hemorrhage		1	0	0	0	0	0	0	1	1	0
Lymph nodes		(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)
Normal		40	42	47	47	45	47	45	47	47	47
Enlargement, mandibular		6	8	3	3	5	3	5	3	3	3
Enlargement, mesenteric		5	7	3	3	4	3	4	3	3	3
Cyst		1	0	0	0	0	0	0	0	0	0

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- TERMINAL SACRIFICE AND FOUND DEAD OR MORIBUND SACRIFICE

ORGAN AND FINDINGS	NO. OF ANIMALS EXAMINED	DOSE (%)	MALE		FEMALE		FEMALE	
			Group1	Group2	Group3	Group4	Group5	Group6
Spleen		--	0	0.5	2.5	0	0.5	2.5
Normal	50		(50)	(50)	(50)	(50)	(50)	(50)
Enlargement	48		47	49	50	49	50	50
	2		3	1	0	1	0	0
Thymus			(50)	(50)	(50)	(50)	(50)	(50)
Normal	44		44	46	45	46	48	48
Enlargement	2		1	0	2	1	1	1
Nodule/mass	4		5	4	3	3	1	1
Thyroid(s)			(50)	(50)	(50)	(50)	(50)	(50)
Normal	49		48	48	49	49	47	47
Enlargement	1		1	1	0	1	2	2
Nodule/mass, bilateral	0		0	1	0	0	0	0
Nodule/mass, unilateral	0		1	0	1	0	1	1
Parathyroid(s)			(50)	(50)	(50)	(50)	(50)	(50)
Normal	50		50	49	50	50	50	50
Enlargement	0		0	1	0	0	0	0

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プロポリスの発がん性試験

SUMMARY OF GROSS PATHOLOGY DATA

- TERMINAL SACRIFICE AND FOUND DEAD OR MORIBUND SACRIFICE

ORGAN AND FINDINGS	NO. OF ANIMALS EXAMINED	DOSE (%)	MALE		FEMALE		FEMALE	
			Group1	Group2	Group3	Group4	Group5	Group6
Pituitary	50	--	(50)	(50)	(50)	(50)	(50)	(50)
Normal	40		47	43	24	26	30	30
Hemorrhage	5		0	0	0	2	4	4
Nodule/mass	10		3	7	26	24	20	20
Adrenal(s)	50		(50)	(50)	(50)	(50)	(50)	(50)
Normal	44		49	50	45	45	48	48
Enlargement	5		1	0	5	4	2	2
Nodule/mass	1		0	0	0	0	0	0
Discolored spot	0		0	0	0	1	0	0



Table 8

STUDY NO. 04AI

プロポリスの発がん性試験

SUMMARY OF GROSS PATHOLOGY DATA

- TERMINAL SACRIFICE AND FOUND DEAD OR MORIBUND SACRIFICE

ORGAN AND FINDINGS	NO. OF ANIMALS EXAMINED	DOSE (%)	MALE		FEMALE			
			Group1	Group2	Group3	Group4	Group5	Group6
Lung(s)		--	0	0.5	2.5	0	0.5	2.5
	50	--	50	50	50	50	50	50
	(50)		(50)	(50)	(50)	(50)	(50)	(50)
Normal	49		49	49	49	49	49	50
Discolored	0		1	0	0	0	0	0
Discolored spot	0		0	0	1	0	0	0
Nodule/mass	1		0	0	0	0	1	0
Enlargement	0		0	0	1	0	0	0
Pancreas			(50)	(50)	(50)	(50)	(50)	(50)
Normal	50		50	50	49	50	49	50
Nodule/mass	0		0	0	1	0	1	0
Stomach			(50)	(50)	(50)	(50)	(50)	(50)
Normal	50		50	50	50	50	50	50
Small intestine			(50)	(50)	(50)	(50)	(50)	(50)
Normal	50		50	50	50	50	50	50
Large intestine			(50)	(50)	(50)	(50)	(50)	(50)
	50		50	50	50	50	50	50

Table 8

プロボリスの発がん性試験

## SUMMARY OF GROSS PATHOLOGY DATA

## - TERMINAL SACRIFICE AND FOUND DEAD OR MORIBUND SACRIFICE

ORGAN AND FINDINGS	NO. OF ANIMALS EXAMINED	DOSE (%)	MALE		FEMALE		MALE		FEMALE	
			Group1	Group2	Group3	Group4	Group5	Group6		
Liver		--								
Normal	50		(50)	50	(50)	50	(50)	50	(50)	50
Discolored spot	48		48	49	48	48	48	48	48	48
Enlargement	0		1	0	0	0	0	0	0	0
Nodule/mass	1		0	1	1	1	0	0	0	0
Cyst	0		0	0	0	1	1	0	0	0
Atrophy	0		0	0	0	0	0	0	0	1
Hemorrhage	1		1	1	0	0	0	0	0	0
Kidney(L)										
Normal	(50)		(50)	50	(50)	50	(50)	50	(50)	50
Cyst	47		47	45	48	48	48	50	50	50
Rough/granular surface	0		0	1	0	0	0	0	0	0
Enlargement	1		0	1	0	0	0	0	0	0
Nodule/mass	1		2	2	2	2	0	0	0	0
Kidney(R)										
Normal	(50)		(50)	50	(50)	50	(50)	50	(50)	50
Enlargement	49		49	49	48	48	50	50	50	50
	1		1	1	2	2	0	0	0	0

Table 8

プロポリスの発がん性試験

SUMMARY OF GROSS PATHOLOGY DATA  
- TERMINAL SACRIFICE AND FOUND DEAD OR MORIBUND SACRIFICE

ORGAN AND FINDINGS	NO. OF ANIMALS EXAMINED	DOSE (%)	MALE		FEMALE		FEMALE	
			Group1	Group2	Group3	Group4	Group5	Group6
Epididymis		--						
Normal	50	0	50	50	50	0	50	50
Atrophy	1	0	0	0	0	-	-	-
Rough/granular surface	0	0	0	0	1	-	-	-
Seminal vesicle(s)								
Normal	50	50	50	50	50	-	-	-
Enlargement	49	49	49	49	49	-	-	-
Mammary gland								
Normal	50	50	50	50	50	50	50	50
Nodule/mass	49	50	50	50	41	40	46	46
	1	0	0	0	9	10	4	4
Skin (subcutis)								
Normal	50	50	50	50	50	50	50	50
Nodule/mass	44	44	44	46	48	50	48	48
	6	6	6	4	2	0	2	2
Salivary gland(s)								
Normal	50	50	50	50	50	50	50	50

Table 8

プロポリスの発がん性試験

## SUMMARY OF GROSS PATHOLOGY DATA

## - TERMINAL SACRIFICE AND FOUND DEAD OR MORIBUND SACRIFICE

ORGAN AND FINDINGS	NO. OF ANIMALS EXAMINED	DOSE (%)	MALE		FEMALE		FEMALE	
			Group1	Group2	Group3	Group4	Group5	Group6
Uterus	--	--	0	50	2.5	0	50	2.5
Normal	-	-	-	-	-	(50)	(50)	(50)
Enlargement	-	-	-	-	-	41	38	38
Nodule/mass	-	-	-	-	-	2	8	4
	-	-	-	-	-	7	4	8
Ovary (R)	-	-	-	-	-	(50)	(50)	(50)
Normal	-	-	-	-	-	50	48	50
Cyst	-	-	-	-	-	0	2	2
Enlargement	-	-	-	-	-	0	0	1
Ovary (L)	-	-	-	-	-	(50)	(50)	(50)
Normal	-	-	-	-	-	50	49	49
Cyst	-	-	-	-	-	0	1	2
Hemorrhage	-	-	-	-	-	0	0	1