

Table 5-2 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Urinalysis of male rats (Week 6 of administration)

Dose mg/kg	No.	4) Occult blood					5) Bilirubin					6) Urobilinogen					7) Color		
		-	+	++	+++	++++	-	+	++	+++	++++	-	+	++	+++	++++	LY	Y	DY
0	17	16	1	0	0	0	16	1	0	0	0	15	2	0	0	0	0	17	0
100	12	0	0	5	7	0	11	1	0	0	0	10	2	0	0	0	0	10	2
300	12	0	0	5	6	1	12	0	0	0	0	11	1	0	0	0	0	9	3
1000	17	0	0	0	11	6	16	1	0	0	0	14	3	0	0	0	0	14	3

4) - : <0.03 mg/dL    +- : 0.03 - 0.05 mg/dL    + : 0.06 - 0.15 mg/dL    ++ : 0.16 - 0.75 mg/dL    +++ : >0.75 mg/dL  
5) - : <0.5 mg/dL    + : 0.5 - 1.5 mg/dL    ++ : 1.6 - 5.0 mg/dL    +++ : 5.1 - 10.0 mg/dL    ++++ : >10.0 mg/dL  
6) +- : <2.0 mg/dL    + : 2.0 - 3.5 mg/dL    ++ : 3.6 - 7.0 mg/dL    +++ : 7.1 - 12.0 mg/dL    ++++ : >12.0 mg/dL  
7) LY : Light yellow    Y : Yellow    DY : Dark yellow

Table 5-3 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Urinalysis of male rats (Week 6 of administration)

Dose mg/kg	No.	URINE SEDIMENT																																
		RBC					WBC					SEC					SREC					Cast					CRYSTALLIZATION							
		-	+	++	+++	++++	-	+	++	+++	++++	-	+	++	+++	++++	-	+	++	+++	++++	-	+	++	+++	++++	-	+	++	+++	++++			
0	17	15	2	0	0	0	16	1	0	0	0	0	16	1	0	0	17	0	0	0	0	17	0	0	8	9	0	0	0	17	0	0	0	0
100	12	12	0	0	0	0	12	0	0	0	0	0	12	0	0	0	12	0	0	0	0	12	0	0	4	8	0	0	0	12	0	0	0	0
300	12	12	0	0	0	0	11	1	0	0	0	0	12	0	0	0	11	1	0	0	0	12	0	0	4	7	1	0	0	12	0	0	0	0
1000	17	17	0	0	0	0	17	0	0	0	0	0	17	0	0	0	17	0	0	0	0	17	0	0	7	10	0	0	0	17	0	0	0	0

SEC : Squamous Epithelial Cell    - : Negative  
SREC : Small Round Epithelial Cell    +- : Slight  
PS : Phosphate Salts    + : Mild  
CO : Calcium Oxalate    ++ : Moderate  
+++ : Severe

Table 5-4 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Water intake and urinalysis (Week 6 of administration)  
Male

Dose mg/kg	No.		Water intake mL/24h	Urine volume mL/24h	Osmolality mOsm/kg
0	17	Mean	41	14.7	1791
		S.D.	11	5.5	433
100	12	Mean	40	11.0	1927
		S.D.	7	3.2	330
300	12	Mean	49	14.3	1783
		S.D.	11	6.1	451
1000	17	Mean	51*	14.0	1524
		S.D.	12D	4.4	425

\* : p<0.05 (Significant difference from control group)  
D : Dunnett's test

Table 5-5 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Urinalysis of male rats (Week 2 of recovery)

Dose mg/kg	No.	pH									1) Protein					2) Ketone body					3) Glucose						
		5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	-	+	++	+++	++++	-	+	++	+++	++++	-	+	++	+++	++++		
0	5	0	0	0	0	0	2	2	1	0	0	1	4	0	0	0	0	2	3	0	0	0	5	0	0	0	0
1000	5	0	0	0	0	0	1	3	1	0	2	2	1	0	0	0	4	1	0	0	0	0	5	0	0	0	0

1) - : <10 mg/dL    +- : 10 - 25 mg/dL    + : 26 - 85 mg/dL    ++ : 86 - 250 mg/dL    +++ : 251 - 600 mg/dL    ++++ : >600 mg/dL  
2) - : <5 mg/dL    +- : 5 - 7.5 mg/dL    + : 7.6 - 30 mg/dL    ++ : 31 - 70 mg/dL    +++ : 71 - 125 mg/dL    ++++ : >125 mg/dL  
3) - : <30 mg/dL    +- : 30 - 60 mg/dL    + : 61 - 125 mg/dL    ++ : 126 - 250 mg/dL    +++ : 251 - 750 mg/dL    ++++ : >750 mg/dL

Table 5-6 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Urinalysis of male rats (Week 2 of recovery)

Dose mg/kg	No.	4) Occult blood				5) Bilirubin					6) Urobilinogen				7) Color				
		-	+	++	+++	-	+	++	+++	++++	-	+	++	+++	++++	LY	Y	DY	
0	5	5	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0	5	0
1000	5	5	0	0	0	0	5	0	0	0	0	4	1	0	0	0	0	5	0

4) - : <0.03 mg/dL    +- : 0.03 - 0.05 mg/dL    + : 0.06 - 0.15 mg/dL    ++ : 0.16 - 0.75 mg/dL    +++ : >0.75 mg/dL  
5) - : <0.5 mg/dL    + : 0.5 - 1.5 mg/dL    ++ : 1.6 - 5.0 mg/dL    +++ : 5.1 - 10.0 mg/dL    ++++ : >10.0 mg/dL  
6) +- : <2.0 mg/dL    + : 2.0 - 3.5 mg/dL    ++ : 3.6 - 7.0 mg/dL    +++ : 7.1 - 12.0 mg/dL    ++++ : >12.0 mg/dL  
7) LY : Light yellow    Y : Yellow    DY : Dark yellow

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Table 5-7 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Urinalysis of male rats (Week 2 of recovery)

Dose mg/kg	No.	URINE SEDIMENT										CRYSTALLIZATION																	
		RBC		WBC		SEC		SREC		Cast		PS		CO															
		-	+	++	+++	-	+	++	+++	-	+	++	+++	-	+	++	+++												
0	5	5	0	0	0	0	5	0	0	0	0	5	0	0	0	0	1	3	1	0	0	5	0	0	0	0			
1000	5	5	0	0	0	0	5	0	0	0	0	5	0	0	0	0	5	0	0	0	2	3	0	0	0	5	0	0	0

SEC : Squamous Epithelial Cell    - : Negative  
SREC : Small Round Epithelial Cell    +- : Slight  
PS : Phosphate Salts    + : Mild  
CO : Calcium Oxalate    ++ : Moderate  
+++ : Severe

Table 5-8 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Water intake and urinalysis (Week 2 of recovery)  
Male

Dose mg/kg	No.		Water intake mL/24h	Urine volume mL/24h	Osmolality mOsm/Kg
0	5	Mean	41	16.6	1895
		S.D.	10	3.9	472
1000	5	Mean	54	21.4	1760
		S.D.	16	9.3	331

No significant difference between treated group and control group.

Table 6-1 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Hematology (Week 6 of administration)  
Male

Dose mg/kg	No.		RBC X10 <sup>6</sup> /μL	Hb g/dL	Ht %	MCV fL	MCH pg	MCHC g/dL	Reticulo-lyocyte %	Plate-let X10 <sup>3</sup> /μL	PT s	APTT s	Fibri-nogen mg/dL
0	5	Mean	890	15.8	42.5	47.8	17.8	37.2	1.7	112.2	15.6	19.7	257
		S.D.	39	0.3	0.7	2.7	1.1	0.6	0.3	15.6	0.9	1.4	22
100	5	Mean	851	15.7	42.7	50.2	18.4	36.7	1.7	100.1	16.1	18.3	270
		S.D.	31	0.7	1.9	2.4	0.8	0.2	0.3	8.3	0.9	1.0	9
300	5	Mean	842*	15.8	42.8	50.8	18.8	36.9	1.8	114.3	15.4	18.0	291**
		S.D.	18D	0.6	1.6	1.4	0.4	0.3	0.2	12.1	0.4	0.6	8D
1000	5	Mean	793**	14.3**	39.5*	49.7	18.1	36.3*	1.9	134.7*	15.8	19.6	241
		S.D.	26D	0.6D	2.2D	1.5	0.6	0.7D	0.3	14.5D	0.8	1.5	14

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
D : Dunnett's test

Table 6-2 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Hematology (Week 6 of administration)  
Male

Dose mg/kg	No.		WBC X10 <sup>3</sup> /μL	Differential leukocyte counts (%)					LUC	Differential leukocyte counts (X10 <sup>3</sup> /μL)					
				Lymph.	Neut.	Eosino.	Baso.	Mono.		Lymph.	Neut.	Eosino.	Baso.	Mono.	LUC
0	5	Mean	89.7	76.5	19.2	1.3	0.3	2.0	0.7	68.9	17.1	1.1	0.3	1.7	0.7
		S.D.	10.4	4.4	4.1	0.5	0.1	0.5	0.4	11.2	3.2	0.3	0.2	0.3	0.4
100	5	Mean	91.7	79.1	16.7	1.6	0.4	1.7	0.5	72.9	14.9	1.5	0.3	1.6	0.5
		S.D.	26.9	3.7	3.4	0.3	0.1	0.6	0.3	23.4	3.2	0.5	0.2	0.7	0.3
300	5	Mean	101.2	74.4	22.1	1.0	0.3	1.6	0.5	75.5	22.2	1.1	0.3	1.7	0.5
		S.D.	19.9	4.5	4.5	0.4	0.1	0.4	0.1	16.3	5.7	0.5	0.1	0.7	0.1
1000	5	Mean	134.7	73.5	22.4	1.0	0.3	2.3	0.5	100.2	29.4**	1.3	0.4	2.8*	0.6
		S.D.	47.7	4.5	3.7	0.4	0.1	0.7	0.2	41.1	8.3D	0.3	0.2	0.4D	0.3

LUC : Large unstained cells  
\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
D : Dunnett's test

Table 6-3 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Hematology (Day 4 of lactation)  
Female

Dose mg/kg	No.		RBC	Hb	Ht	MCV	MCH	MCHC	Reticu- lyocyte	Plate- let	PT	APTT	Fibri- nogen
			X10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	X10 <sup>3</sup> /μL	s	s	mg/dL
0	5	Mean	682	13.0	36.5	53.6	19.1	35.5	6.6	125.0	15.3	19.3	330
		S.D.	44	0.6	1.1	2.6	0.9	0.8	1.8	7.7	0.7	4.5	109
100	5	Mean	671	13.3	35.3	52.6	19.7	37.5*	5.4	130.4	15.6	19.7	299
		S.D.	46	0.8	1.5	1.8	0.6	0.7D	1.0	24.2	0.5	6.6	38
300	5	Mean	681	13.1	36.1	53.1	19.2	36.3	4.5	161.0	14.7	23.3	370
		S.D.	27	0.2	0.8	1.9	0.7	0.3	2.4	43.0	0.7	9.1	76
1000	5	Mean	659	12.1	34.1	52.0	18.4	35.6	7.2	184.8**	15.4	24.7	296
		S.D.	50	0.8	2.4	3.8	0.7	1.8	5.9	19.6D	0.5	10.8	75

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
D : Dunnett's test

Table 6-4 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Hematology (Day 4 of lactation)  
Female

Dose mg/kg	No.		WBC X10 <sup>3</sup> /μL	Differential leukocyte counts (%)					LUC	Differential leukocyte counts (X10 <sup>3</sup> /μL)					LUC
				Lymph.	Neut.	Eosino.	Baso.	Mono.		Lymph.	Neut.	Eosino.	Baso.	Mono.	
0	5	Mean	138.7	59.3	37.0	0.7	0.2	2.2	0.5	82.4	51.1	1.1	0.3	3.0	0.8
		S.D.	35.1	11.2	11.0	0.3	0.1	0.7	0.3	25.6	16.9	0.6	0.2	1.4	0.5
100	5	Mean	193.6	60.5	35.9	0.6	0.3	2.1	0.5	118.1	68.7	1.1	0.6	4.0	1.1
		S.D.	54.5	4.3	3.8	0.2	0.1	0.5	0.2	38.6	16.9	0.4	0.3	0.7	0.7
300	5	Mean	181.1	57.3	38.9	0.4	0.2	2.5	0.7	104.1	69.9	0.8	0.4	4.5	1.2
		S.D.	29.3	5.0	4.6	0.2	0.1	1.4	0.1	21.4	10.8	0.3	0.3	2.7	0.3
1000	5	Mean	165.5	60.2	35.8	0.4	0.2	2.8	0.6	101.4	57.7	0.7	0.4	4.5	1.0
		S.D.	23.8	14.7	13.2	0.2	0.1	1.7	0.4	35.7	17.9	0.2	0.2	2.5	0.7

LUC : Large unstained cells  
No significant difference in any treated groups from control group.

Table 6-5 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Hematology (Day 14 of recovery)  
Male

Dose mg/kg	No.		RBC	Hb	Ht	MCV	MCH	MCHC	Reticu- loocyte	Plate- let	PT	APTT	Fibri- nogen
			X10 <sup>3</sup> /μL	g/dL	%	fL	pg	g/dL	%	X10 <sup>3</sup> /μL	s	s	mg/dL
0	5	Mean	892	16.0	42.7	47.9	17.9	37.4	1.9	99.7	17.4	21.9	288
		S.D.	27	0.6	1.8	1.5	0.5	0.3	0.4	9.4	0.7	3.5	22
1000	5	Mean	822**	15.0*	40.8	49.6	18.3	36.9	2.8*	111.5	17.3	19.1	309
		S.D.	35T	0.6T	2.0	0.9	0.2	0.5	0.5T	7.7	1.4	2.0	33

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
T : Student's t-test

Table 6-6 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Hematology (Day 14 of recovery)

Male

Dose mg/kg	No.		WBC ×10 <sup>3</sup> /μL	Differential leukocyte counts (%)					LUC	Differential leukocyte counts (×10 <sup>3</sup> /μL)					LUC
				Lymph.	Neut.	Eosino.	Baso.	Mono.		Lymph.	Neut.	Eosino.	Baso.	Mono.	
0	5	Mean	109.5	78.0	17.2	1.5	0.4	2.4	0.6	85.5	18.9	1.6	0.4	2.6	0.6
		S.D.	16.1	3.3	2.5	0.4	0.1	0.9	0.2	12.9	4.0	0.4	0.2	1.0	0.2
1000	5	Mean	90.7	77.9	18.3	0.9*	0.3	1.9	0.7	70.9	16.3	0.8**	0.3	1.7	0.7
		S.D.	14.6	2.5	2.5	0.3T	0.1	0.5	0.2	18.3	1.0	0.2T	0.1	0.6	0.3

LUC : Large unstained cells

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)

T : Student's t-test

Table 6-7 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Hematology (Day 14 of recovery)

Female

Dose mg/kg	No.		RBC	Hb	Ht	MCV	MCH	MCHC	Reticu- loocyte	Plate- let	PT	APTT	Fibrin- ogen
			×10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	×10 <sup>3</sup> /μL	s	s	mg/dL
0	5	Mean	827	15.9	41.8	50.6	19.3	38.1	1.5	114.5	15.7	24.3	224
		S.D.	35	0.4	1.7	1.2	0.4	0.6	0.3	18.3	0.6	9.1	19
1000	5	Mean	811	15.2	40.6	50.1	18.8	37.5	2.0	117.5	15.8	16.2	241
		S.D.	34	0.6	1.3	1.1	0.7	0.6	0.6	15.9	0.7	1.5	24

No significant difference between treated group and control group.

Table 6-8 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Hematology (Day 14 of recovery)

Female

Dose mg/kg	No.		WBC X10 <sup>3</sup> /μL	Differential leukocyte counts (%)						Differential leukocyte counts (X10 <sup>3</sup> /μL)					
				Lymph.	Neut.	Eosino.	Baso.	Mono.	LUC	Lymph.	Neut.	Eosino.	Baso.	Mono.	LUC
0	5	Mean	50.5	69.4	25.5	2.0	0.2	2.4	0.5	35.2	12.6	1.0	0.1	1.3	0.3
		S.D.	12.8	6.0	6.5	0.7	0.1	1.0	0.4	9.8	3.8	0.5	0.1	0.7	0.2
1000	5	Mean	59.6	67.1	28.5	1.8	0.3	1.9	0.4	39.5	17.5	1.0	0.2	1.2	0.2
		S.D.	14.8	10.9	11.1	0.5	0.1	0.3	0.2	9.5	8.6	0.2	0.1	0.3	0.1

LUC : Large unstained cells

No significant difference between treated group and control group.

Table 7-1 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Blood chemistry (Week 6 of administration)

Male

Dose mg/kg	No.		AST	ALT	LDH	γ-GTP	ALP	T.cho	TC	PL	T.bili-	Glucose	BUN	Crea-
			(GOT) IU/L	(GPT) IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
0	5	Mean	65	33	51	1	452	46	41	86	0.1	128	12	0.28
		S.D.	3	3	6	0	77	7	20	8	0.0	3	1	0.02
100	5	Mean	62	26	44	1	422	47	29	80	0.1	144*	12	0.28
		S.D.	6	4	7	0	48	2	13	5	0.0	12D	1	0.03
300	5	Mean	68	36	77*	1	425	52	36	88	0.1	134	12	0.28
		S.D.	11	7	22D	0	73	10	19	13	0.0	11	3	0.03
1000	5	Mean	57	35	53	1	504	38	48	81	0.1	111*	14	0.29
		S.D.	4	4	18	0	135	7	9	12	0.0	10D	1	0.04

\* : p<0.05 (Significant difference from control group)

D : Dunnett's test



Table 7-2

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Blood chemistry (Week 6 of administration)

Male

Dose mg/kg	No.		Na	K	Cl	Ca	P	TP	Albumin	A/G
			mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL	g/dL
0	5	Mean	144	4.7	108	9.3	6.1	6.0	2.6	0.75
		S.D.	1	0.3	2	0.2	0.5	0.2	0.1	0.02
100	5	Mean	144	4.9	107	9.7*	6.5	6.0	2.6	0.77
		S.D.	1	0.1	1	0.2D	0.4	0.3	0.1	0.04
300	5	Mean	144	5.3*	108	9.7	7.0**	6.2	2.7	0.75
		S.D.	1	0.2D	1	0.3	0.3D	0.2	0.2	0.04
1000	5	Mean	143	5.1	108	9.7	7.4**	6.0	2.6	0.77
		S.D.	1	0.4	1	0.2	0.3D	0.1	0.1	0.04

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
D : Dunnett's test

Table 7-3

A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone

Blood chemistry (Day 4 of lactation)

Female

Dose mg/kg	No.		AST (GOT)	ALT (GPT)	LDH	$\gamma$ -GTP	ALP	T.cho	TC	PL	T.bili-rubin	Glucose	BUN	Crea-tinine
			IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
0	5	Mean	111	69	43	1	345	59	44	115	0.1	135	14	0.35
		S.D.	15	8	10	1	149	5	24	7	0.0	8	2	0.03
100	5	Mean	108	52	56	1	251	58	39	114	0.1	134	13	0.36
		S.D.	53	10	23	0	104	10	17	13	0.0	6	2	0.02
300	5	Mean	116	70	51	1	241	66	40	124	0.1	123	14	0.37
		S.D.	17	22	17	0	25	15	12	20	0.0	36	2	0.04
1000	5	Mean	103	59	56	1	300	65	40	129	0.1	120	18	0.32
		S.D.	34	13	7	1	84	19	13	35	0.0	17	7	0.04

No significant difference in any treated groups from control group.

Table 7-4 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Blood chemistry (Day 4 of lactation)  
Female

Dose mg/kg	No.		Na mmol/L	K mmol/L	Cl mmol/L	Ca mg/dL	P mg/dL	TP g/dL	Albumin g/dL	A/G
0	5	Mean	141	4.2	107	9.8	7.0	6.1	2.7	0.79
		S.D.	1	0.8	2	0.3	0.7	0.2	0.1	0.03
100	5	Mean	141	4.2	106	10.0	7.3	6.4	2.8	0.79
		S.D.	2	0.2	1	0.2	0.6	0.3	0.1	0.03
300	5	Mean	141	4.3	104	10.1	7.8	5.8	2.5	0.77
		S.D.	2	0.4	4	0.3	0.7	0.4	0.2	0.05
1000	5	Mean	141	4.7	105	10.1	7.5	5.9	2.6	0.80
		S.D.	1	0.4	4	0.4	0.6	0.4	0.2	0.02

No significant difference in any treated groups from control group.

Table 7-5 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Blood chemistry (Day 14 of recovery)  
Male

Dose mg/kg	No.		AST (GOT) IU/L	ALT (GPT) IU/L	LDH IU/L	$\gamma$ -GTP IU/L	ALP IU/L	T.cho mg/dL	TG mg/dL	PL mg/dL	T.bili- rubin mg/dL	Glucose mg/dL	BUN mg/dL	Crea- tinine mg/dL
0	5	Mean	68	31	46	1	404	49	43	88	0.1	148	15	0.31
		S.D.	9	8	8	0	45	11	15	12	0.0	10	2	0.03
1000	5	Mean	87	37	54	1	329*	54	37	91	0.1	144	15	0.30
		S.D.	28	9	23	0	51T	7	11	7	0.0	12	3	0.03

\* : p<0.05 (Significant difference from control group)  
T : Student's t-test

Table 7-6 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Blood chemistry (Day 14 of recovery)  
Male

Dose mg/kg	No.		Na mmol/L	K mmol/L	Cl mmol/L	Ca mg/dL	P mg/dL	TP g/dL	Albumin g/dL	A/G
0	5	Mean	143	4.8	107	9.4	6.4	6.3	2.6	0.73
		S.D.	0	0.4	2	0.3	0.5	0.2	0.1	0.05
1000	5	Mean	143	4.9	106	9.3	6.8	6.1	2.6	0.74
		S.D.	1	0.5	0	0.3	0.4	0.1	0.1	0.03

No significant difference between treated group and control group.

Table 7-7 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Blood chemistry (Day 14 of recovery)  
Female

Dose mg/kg	No.		AST (GOT) IU/L	ALT (GPT) IU/L	LDH IU/L	$\gamma$ -GTP IU/L	ALP IU/L	T.cho mg/dL	TG mg/dL	PL mg/dL	T.bili- rubin mg/dL	Glucose mg/dL	BUN mg/dL	Crea- tinine mg/dL
0	5	Mean	70	31	46	1	224	65	16	129	0.1	131	16	0.35
		S.D.	19	14	8	0	60	5	9	8	0.0	12	1	0.04
1000	5	Mean	62	33	47	1	176	80	20	143	0.1	120	18	0.32
		S.D.	10	9	5	0	26	21	11	28	0.0	22	4	0.06

No significant difference between treated group and control group.

Table 7-8 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Blood chemistry (Day 14 of recovery)  
Female

Dose mg/kg	No.		Na mmol/L	K mmol/L	Cl mmol/L	Ca mg/dL	P mg/dL	TP g/dL	Albumin g/dL	A/G
0	5	Mean	142	4.4	110	9.5	4.2	6.7	2.9	0.77
		S.D.	1	0.2	2	0.1	0.9	0.2	0.1	0.02
1000	5	Mean	144*	4.3	110	9.5	5.1	6.7	2.8*	0.71**
		S.D.	1T	0.2	1	0.2	0.5	0.2	0.0T	0.03T

\* : p<0.05 ; \*\* : p<0.01 (Significant difference from control group)  
T : Student's t-test

Table 8-1 A combined repeated-dose/reproductive-developmental toxicity study in rats treated orally with 2,3,4,4'-Tetrahydroxybenzophenone  
Organ weight of male rats (Main group)

Dose mg/kg		Body weight g	Brain g(g/100g BW)	Thyroid (R+L) mg(mg/100g BW)	Thymus mg(mg/100g BW)	Heart g(g/100g BW)	Liver g(g/100g BW)
0	No.	5	5	5	5	5	5
	Mean	469	2.06	22.7	265	1.31	12.34
Absolute 100	S.D.	42	0.07	6.1	128	0.10	1.69
	No.	5	5	5	5	5	5
300	Mean	488	2.06	25.6	320	1.34	13.34
	S.D.	25	0.17	2.6	98	0.06	1.27
1000	No.	5	5	5	5	5	5
	Mean	461	2.06	22.9	261	1.36	12.14
Relative 100	S.D.	27	0.08	4.0	72	0.10	1.13
	No.	5	5	5	5	5	5
300	Mean	392**	2.07	19.1	182	1.20	11.87
	S.D.	20D	0.04	4.4	33	0.07	0.91
0	No.		5	5	5	5	5
	Mean		0.44	4.9	56	0.28	2.62
Relative 100	S.D.		0.03	1.4	22	0.01	0.14
	No.		5	5	5	5	5
300	Mean		0.42	5.3	66	0.28	2.73
	S.D.		0.05	0.6	19	0.02	0.16
1000	No.		5	5	5	5	5
	Mean		0.45	5.0	56	0.30	2.63
Relative 1000	S.D.		0.03	0.7	14	0.02	0.11
	No.		5	5	5	5	5
300	Mean		0.53**	4.9	47	0.31	3.02**
	S.D.		0.03D	1.1	10	0.02	0.12D

\*\* : p<0.01 (Significant difference from control group)  
D: Dunnett's test