

**Experiment Number:** 05201-03

**Species/Strain:** Rat/Fischer 344

**P42: Clinical Chemistry Data**

**Date Report Requested:** 10/25/2014

**Time Report Requested:** 23:59:41

**First Dose M/F:** NA / NA

**Lab:** NA

**C Number:** C56224B

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:41

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0001_03	0 ppm	Week : 13	4	1.33	281	65
0002_03	0 ppm	Week : 13	4	1.08	330	61
0003_03	0 ppm	Week : 13	4	1.38	278	98
0004_03	0 ppm	Week : 13	4	1.29	292	55
0005_03	0 ppm	Week : 13	3.8	1.23	257	65
0006_03	0 ppm	Week : 13	4.2	1.62	317	62
0007_03	0 ppm	Week : 13	3.9	1.26	324	57
0008_03	0 ppm	Week : 13	3.8	1.09	286	65
0009_03	0 ppm	Week : 13	3.6	1.16	277	58
0010_03	0 ppm	Week : 13	4.1	1.37	302	78
0011_03	0 ppm	Day : 3	3.2	1.69	711	50
0011_03	0 ppm	Day : 23	4.1	1.71	610	34
0012_03	0 ppm	Day : 3	3	1.43	722	46
0012_03	0 ppm	Day : 23	4.2	1.91	567	34
0013_03	0 ppm	Day : 3	3.2	1.52	689	49
0013_03	0 ppm	Day : 23	4.3	1.95	641	34
0014_03	0 ppm	Day : 3	3.1	1.35	670	52
0014_03	0 ppm	Day : 23	4.4	2	568	40
0015_03	0 ppm	Day : 3	3.2	1.6	677	47
0015_03	0 ppm	Day : 23	4.3	2.05	602	36
0016_03	0 ppm	Day : 3	3.3	1.65	659	46
0016_03	0 ppm	Day : 23	4.6	3.07	541	32

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

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First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0017_03	0 ppm	Day : 3	3.1	1.48	669	42
0017_03	0 ppm	Day : 23	4.4	2.32	481	32
0018_03	0 ppm	Day : 3	3.3	1.94	675	43
0018_03	0 ppm	Day : 23	4.5	2.05	587	39
0019_03	0 ppm	Day : 3	3.4	1.79	672	46
0019_03	0 ppm	Day : 23	4.4	2.44	496	39
0020_03	0 ppm	Day : 3	3.3	1.74	779	45
0020_03	0 ppm	Day : 23	4.5	2.65	587	32
0201_03	2 ppm	Week : 13	4.2	1.45	281	87
0202_03	2 ppm	Week : 13	4	1.33	309	75
0203_03	2 ppm	Week : 13	3.9	1.22	285	58
0204_03	2 ppm	Week : 13	4	1.33	263	176*
0205_03	2 ppm	Week : 13	4	1.21	256	58
0206_03	2 ppm	Week : 13	4	1.18	277	69
0207_03	2 ppm	Week : 13	3.9	1.44	290	68
0208_03	2 ppm	Week : 13	3.9	1.34	265	52
0209_03	2 ppm	Week : 13	4	1.29	312	71
0210_03	2 ppm	Week : 13	4.3	1.59	310	52
0211_03	2 ppm	Day : 3	3.2	1.52	654	40
0212_03	2 ppm	Day : 3	3.1	1.48	666	47
0212_03	2 ppm	Day : 23	4.3	2.26	612	35
0213_03	2 ppm	Day : 3	3	1.43	749	44

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:41

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0213_03	2 ppm	Day : 23	4.6	2.3	643	35
0214_03	2 ppm	Day : 3	3.4	1.55	708	46
0214_03	2 ppm	Day : 23	4.3	2.15	532	34
0215_03	2 ppm	Day : 3	3.3	1.57	739	42
0215_03	2 ppm	Day : 23	4.3	1.95	573	38
0216_03	2 ppm	Day : 3	3.3	1.43	702	42
0216_03	2 ppm	Day : 23	4.5	2.25	534	34
0217_03	2 ppm	Day : 3	3.2	1.68	776	44
0217_03	2 ppm	Day : 23	4.3	2.05	544	33
0218_03	2 ppm	Day : 3	3.3	1.57	712	46
0218_03	2 ppm	Day : 23	4.5	2.37	507	34
0219_03	2 ppm	Day : 3	3.2	1.6	724	42
0219_03	2 ppm	Day : 23	4.3	1.65	630	43
0220_03	2 ppm	Day : 3	3.3	1.43	747	43
0220_03	2 ppm	Day : 23	4.6	2.19	633	40
0401_03	4 ppm	Week : 13	3.9	1.39	271	59
0402_03	4 ppm	Week : 13	3.9	1.22	304	83
0403_03	4 ppm	Week : 13	4	1.33	259	57
0404_03	4 ppm	Week : 13	3.9	1.34	231	45
0405_03	4 ppm	Week : 13	4.1	1.14	267	67
0406_03	4 ppm	Week : 13	4.1	1.37	286	64
0407_03	4 ppm	Week : 13	4.2	1.56	317	53

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**MALE**


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Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0408_03	4 ppm	Week : 13	4	1.43	237	54
0409_03	4 ppm	Week : 13	3.9	1.34	275	57
0410_03	4 ppm	Week : 13	4.2	1.45	264	58
0411_03	4 ppm	Day : 3	3.3	1.57	614	42
0411_03	4 ppm	Day : 23	4.4	1.91	538	36
0412_03	4 ppm	Day : 3	3.4	1.7	712	47
0412_03	4 ppm	Day : 23	4.2	2.1	538	36
0413_03	4 ppm	Day : 3	3.1	1.35	729	47
0413_03	4 ppm	Day : 23	4.4	2.1	608	33
0414_03	4 ppm	Day : 3	3	1.58	702	45
0414_03	4 ppm	Day : 23	4.1	1.95	543	36
0415_03	4 ppm	Day : 3	3.3	1.57	720	42
0415_03	4 ppm	Day : 23	4.3	2.15	547	41
0416_03	4 ppm	Day : 3	4.1	1.58	663	32
0417_03	4 ppm	Day : 3	3.4	1.7	647	45
0417_03	4 ppm	Day : 23	4.3	2.05	466	36
0418_03	4 ppm	Day : 3	3.6	1.71	687	50
0418_03	4 ppm	Day : 23	4.5	2.37	627	30
0419_03	4 ppm	Day : 3	3.7	1.68	640	44
0419_03	4 ppm	Day : 23	4.3	2.15	562	41
0420_03	4 ppm	Day : 3	3.3	1.5	674	42
0420_03	4 ppm	Day : 23	4.2	2	623	58

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0601_03	8 ppm	Week : 13	4.1	1.41	277	83
0602_03	8 ppm	Week : 13	4.3	1.48	291	73
0603_03	8 ppm	Week : 13	4.1	1.32	301	65
0604_03	8 ppm	Week : 13	4	1.29	249	56
0605_03	8 ppm	Week : 13	4.3	1.48	332	74
0606_03	8 ppm	Week : 13	3.9	1.26	265	65
0607_03	8 ppm	Week : 13	3.8	1.15	299	78
0608_03	8 ppm	Week : 13	3.9	1.22	224	71
0609_03	8 ppm	Week : 13	3.8	1.36	249	65
0610_03	8 ppm	Week : 13	3.9	1.39	247	85
0611_03	8 ppm	Day : 3	3	1.58	609	40
0611_03	8 ppm	Day : 23	4.2	2.33	539	33
0612_03	8 ppm	Day : 3	3.5	2.06	675	43
0612_03	8 ppm	Day : 23	4.3	2.26	537	45
0613_03	8 ppm	Day : 3	3.2	1.39	673	46
0613_03	8 ppm	Day : 23	4	2.22	608	35
0614_03	8 ppm	Day : 3	3.6	2.12	582	36
0614_03	8 ppm	Day : 23	4.4	2.32	462	31
0615_03	8 ppm	Day : 3	3.5	1.59	607	44
0615_03	8 ppm	Day : 23	4.4	2.1	572	33
0616_03	8 ppm	Day : 3	3.2	1.33	640	21
0616_03	8 ppm	Day : 23	4.2	2.1	596	37

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P42: Clinical Chemistry Data

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0617_03	8 ppm	Day : 3	3.2	1.68	674	41
0617_03	8 ppm	Day : 23	4.4	2.2	563	30
0618_03	8 ppm	Day : 3	3.3	1.43	648	55
0618_03	8 ppm	Day : 23	3.8	1.73	537	35
0619_03	8 ppm	Day : 3	3.4	1.55	690	45
0619_03	8 ppm	Day : 23	4.3	2.53	644	38
0620_03	8 ppm	Day : 3	3.3	1.43	675	44
0620_03	8 ppm	Day : 23	4.2	2	642	32
0801_03	16 ppm	Week : 13	4.1	1.32	308	61
0802_03	16 ppm	Week : 13	4	1.25	315	59
0803_03	16 ppm	Week : 13	4.1	1.46	308	85
0804_03	16 ppm	Week : 13	4	1.21	313	82
0805_03	16 ppm	Week : 13	4.3	1.54	296	59
0806_03	16 ppm	Week : 13	3.9	1.39	283	68
0807_03	16 ppm	Week : 13	4.1	1.32	322	66
0808_03	16 ppm	Week : 13	4.1	1.32	310	49
0809_03	16 ppm	Week : 13	4.1	1.52	222	66
0810_03	16 ppm	Week : 13	3.9	1.26	279	53
0811_03	16 ppm	Day : 3	3.2	1.78	537	36
0811_03	16 ppm	Day : 23	4.3	2.39	576	34
0812_03	16 ppm	Day : 3	3.4	1.62	510	37
0812_03	16 ppm	Day : 23	4.1	2.41	546	33

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0813_03	16 ppm	Day : 3	3.1	1.35	625	40
0813_03	16 ppm	Day : 23	4.2	2.63	501	34
0814_03	16 ppm	Day : 3	3.4	1.7	572	38
0814_03	16 ppm	Day : 23	4.4	2.32	586	34
0815_03	16 ppm	Day : 3	3.3	1.57	642	37
0815_03	16 ppm	Day : 23	4.5	2.14	628	37
0816_03	16 ppm	Day : 3	3.5	1.67	590	40
0816_03	16 ppm	Day : 23	4.3	2.39	510	37
0817_03	16 ppm	Day : 3	3.6	1.89	592	45
0817_03	16 ppm	Day : 23	4.7	3.36	560	33
0818_03	16 ppm	Day : 3	3.6	1.64	564	39
0818_03	16 ppm	Day : 23	4.5	2.65	590	34
0819_03	16 ppm	Day : 3	3.7	2.05	572	37
0819_03	16 ppm	Day : 23	4.5	2.81	485	31
0820_03	16 ppm	Day : 3	3.4	1.48	591	35
0820_03	16 ppm	Day : 23	4.3	2.05	554	29
1001_03	32 ppm	Week : 13	3.9	1.44	289	53
1002_03	32 ppm	Week : 13	3.9	1.18	272	65
1003_03	32 ppm	Week : 13	4.1	1.46	291	49
1004_03	32 ppm	Week : 13	3.9	1.5	293	54
1005_03	32 ppm	Week : 13	3.8	1.31	296	56
1006_03	32 ppm	Week : 13	3.7	1.19	276	47



## MALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
1007_03	32 ppm	Week : 13	3.9	1.34	283	59
1008_03	32 ppm	Week : 13	4.1	1.37	276	52
1009_03	32 ppm	Week : 13	3.9	1.18	274	49
1010_03	32 ppm	Week : 13	4	1.21	278	50
1011_03	32 ppm	Day : 3	3.1	1.63	611	40
1011_03	32 ppm	Day : 23	4.4	2.93	596	32
1012_03	32 ppm	Day : 3	3.2	1.6	643	48
1012_03	32 ppm	Day : 23	4.1	1.95	593	35
1013_03	32 ppm	Day : 3	3.4	1.7	628	40
1013_03	32 ppm	Day : 23	4.4	2.75	552	30
1014_03	32 ppm	Day : 3	3.5	1.59	632	42
1014_03	32 ppm	Day : 23	4.4	2.1	505	34
1015_03	32 ppm	Day : 3	3.4	1.62	558	40
1015_03	32 ppm	Day : 23	4.3	2.87	491	26
1016_03	32 ppm	Day : 3	3.7	1.68	542	36
1016_03	32 ppm	Day : 23	4.6	2.56	616	37
1017_03	32 ppm	Day : 3	3.3	1.57	668	42
1017_03	32 ppm	Day : 23	4.2	2	648	39
1018_03	32 ppm	Day : 3	3.5	1.67	751	43
1018_03	32 ppm	Day : 23	4.5	2.65	589	34
1019_03	32 ppm	Day : 3	3.5	1.75	684	39
1019_03	32 ppm	Day : 23	4.5	2.81	583	29

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

**P42: Clinical Chemistry Data**

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:42

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
<b>1020_03</b>	<b>32 ppm</b>	<b>Day : 3</b>	3.4	1.48	694	39
<b>1020_03</b>	<b>32 ppm</b>	<b>Day : 23</b>	4.8	3	591	32

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0001_03	0 ppm	Week : 13	3.5	17	199	0.7
0002_03	0 ppm	Week : 13	4.5	17	121	0.7
0003_03	0 ppm	Week : 13	3	20	124	0.7
0004_03	0 ppm	Week : 13	4.5	18	108	0.6
0005_03	0 ppm	Week : 13	5	19	204	0.7
0006_03	0 ppm	Week : 13	4.5	17	171	0.6
0007_03	0 ppm	Week : 13	5	20	165	0.7
0008_03	0 ppm	Week : 13	3.5	16	112	0.7
0009_03	0 ppm	Week : 13	4.5	15	160	0.6
0010_03	0 ppm	Week : 13	5.5	20	70	0.7
0011_03	0 ppm	Day : 3	5	10	454	0.4
0011_03	0 ppm	Day : 23	4	11	249	0.7
0012_03	0 ppm	Day : 3	7	12	297	0.5
0012_03	0 ppm	Day : 23	8.5	12	265	0.8
0013_03	0 ppm	Day : 3	13.5	12	459	0.5
0013_03	0 ppm	Day : 23	6	11	420	0.7
0014_03	0 ppm	Day : 3	7.5	11	542	0.4
0014_03	0 ppm	Day : 23	6	13	324	0.7
0015_03	0 ppm	Day : 3	10.5	11	324	0.4
0015_03	0 ppm	Day : 23	3.5	13	347	0.7
0016_03	0 ppm	Day : 3	13.5	15	470	0.5
0016_03	0 ppm	Day : 23	6	15	146	0.8

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0017_03	0 ppm	Day : 3	5.5	13	440	0.4
0017_03	0 ppm	Day : 23	7.5	14	164	0.8
0018_03	0 ppm	Day : 3	5	13	398	0.4
0018_03	0 ppm	Day : 23	3.5	13	127	0.7
0019_03	0 ppm	Day : 3	8.5	12	354	0.5
0019_03	0 ppm	Day : 23	2.7	12	180	0.7
0020_03	0 ppm	Day : 3	7.7	15	343	0.5
0020_03	0 ppm	Day : 23	6.5	12	158	0.8
0201_03	2 ppm	Week : 13	1	21	221	0.8
0202_03	2 ppm	Week : 13	3	18	90	0.6
0203_03	2 ppm	Week : 13	7	19	102	0.7
0204_03	2 ppm	Week : 13	16.5*	19	175	0.7
0205_03	2 ppm	Week : 13	5.5	17	235	0.7
0206_03	2 ppm	Week : 13	4	16	74	0.7
0207_03	2 ppm	Week : 13	4.5	18	173	0.7
0208_03	2 ppm	Week : 13	7.5	18	258	0.6
0209_03	2 ppm	Week : 13	3.5	22	180	0.8
0210_03	2 ppm	Week : 13	2	19	160	0.7
0211_03	2 ppm	Day : 3	7.5	14	389	0.5
0212_03	2 ppm	Day : 3	4.3	10	374	0.5
0212_03	2 ppm	Day : 23	9.2	12	231	0.7
0213_03	2 ppm	Day : 3	11	12	455	0.5

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0213_03	2 ppm	Day : 3	11	12	455	0.5
0213_03	2 ppm	Day : 23	4	12	230	0.7
0214_03	2 ppm	Day : 3	8	11	370	0.5
0214_03	2 ppm	Day : 23	4.2	13	337	0.8
0215_03	2 ppm	Day : 3	5.5	12	248	0.5
0215_03	2 ppm	Day : 23	5.8	13	291	0.8
0216_03	2 ppm	Day : 3	6.7	12	364	0.5
0216_03	2 ppm	Day : 23	5	13	347	0.8
0217_03	2 ppm	Day : 3	7.5	12	359	0.5
0217_03	2 ppm	Day : 23	4.6	12	185	0.7
0218_03	2 ppm	Day : 3	4	11	316	0.6
0218_03	2 ppm	Day : 23	5	12	624	0.8
0219_03	2 ppm	Day : 3	10	10	403	0.5
0219_03	2 ppm	Day : 23	7	13	635	0.8
0220_03	2 ppm	Day : 3	6.5	12	460	0.5
0220_03	2 ppm	Day : 23	20.2	15	528	0.8
0401_03	4 ppm	Week : 13	5	18	73	0.6
0402_03	4 ppm	Week : 13	5.5	19	128	0.7
0403_03	4 ppm	Week : 13	10.3	24	244	0.7
0404_03	4 ppm	Week : 13	4.5	17	166	0.6
0405_03	4 ppm	Week : 13	5.5	17	210	0.7
0406_03	4 ppm	Week : 13	3.5	20	74	0.6

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0407_03	4 ppm	Week : 13	5	20	132	0.8
0408_03	4 ppm	Week : 13	6	18	167	0.6
0409_03	4 ppm	Week : 13	5	18	108	0.6
0410_03	4 ppm	Week : 13	14.5	18	79	0.6
0411_03	4 ppm	Day : 3	10.7	12	323	0.4
0411_03	4 ppm	Day : 23	3	14	197	0.7
0412_03	4 ppm	Day : 3	8.5	13	291	0.5
0412_03	4 ppm	Day : 23	5.8	13	225	0.7
0413_03	4 ppm	Day : 3	7.7	9	312	0.4
0413_03	4 ppm	Day : 23	4.6	12	163	0.7
0414_03	4 ppm	Day : 3	8.5	11	324	0.4
0414_03	4 ppm	Day : 23	8	12	278	0.7
0415_03	4 ppm	Day : 3	7	12	233	0.5
0415_03	4 ppm	Day : 23	5.5	12	323	0.7
0416_03	4 ppm	Day : 3	3	18	444	0.5
0417_03	4 ppm	Day : 3	8.5	12	411	0.5
0417_03	4 ppm	Day : 23	7.5	14	233	0.9
0418_03	4 ppm	Day : 3	8.5	14	344	0.6
0418_03	4 ppm	Day : 23	10.5	14	176	0.7
0419_03	4 ppm	Day : 3	8	13	405	0.4
0419_03	4 ppm	Day : 23	4.5	13	306	0.8
0420_03	4 ppm	Day : 3	14.5	12	513	0.5

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0420_03	4 ppm	Day : 3	14.5	12	513	0.5
0420_03	4 ppm	Day : 23	5.2	14	347	0.7
0601_03	8 ppm	Week : 13	2.5	21	195	0.7
0602_03	8 ppm	Week : 13	5	18	114	0.7
0603_03	8 ppm	Week : 13	6.5	20	195	0.7
0604_03	8 ppm	Week : 13	0.5	16	69	0.7
0605_03	8 ppm	Week : 13	5	19	91	0.6
0606_03	8 ppm	Week : 13	3	15	123	0.6
0607_03	8 ppm	Week : 13	5.5	17	217	0.7
0608_03	8 ppm	Week : 13	6	18	127	0.5
0609_03	8 ppm	Week : 13	5	16	153	0.6
0610_03	8 ppm	Week : 13	7.5	15	144	0.6
0611_03	8 ppm	Day : 3	2.4	12	654	0.4
0611_03	8 ppm	Day : 23	7.8	13	192	0.7
0612_03	8 ppm	Day : 3	6.5	10	351	0.3
0612_03	8 ppm	Day : 23	4.6	15	244	0.7
0613_03	8 ppm	Day : 3	6.5	11	334	0.4
0613_03	8 ppm	Day : 23	3	11	300	0.7
0614_03	8 ppm	Day : 3	3	10	325	0.5
0614_03	8 ppm	Day : 23	5.5	13	171	0.7
0615_03	8 ppm	Day : 3	4.8	12	486	0.5
0615_03	8 ppm	Day : 23	4.2	13	418	0.6

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**MALE**


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Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0616_03	8 ppm	Day : 3	5.7	13	447	0.5
0616_03	8 ppm	Day : 23	4.5	12	229	0.7
0617_03	8 ppm	Day : 3	3.6	10	363	0.4
0617_03	8 ppm	Day : 23	5.2	13	229	0.8
0618_03	8 ppm	Day : 3	14	12	1220	0.5
0618_03	8 ppm	Day : 23	2.7	12	680	0.8
0619_03	8 ppm	Day : 3	10.2	11	380	0.5
0619_03	8 ppm	Day : 23	4.2	13	364	0.6
0620_03	8 ppm	Day : 3	7.7	11	402	0.5
0620_03	8 ppm	Day : 23	2.7	12	274	0.6
0801_03	16 ppm	Week : 13	3.5	20	265	0.7
0802_03	16 ppm	Week : 13	5	20	139	0.6
0803_03	16 ppm	Week : 13	3.5	17	139	0.7
0804_03	16 ppm	Week : 13	3.5	19	120	0.7
0805_03	16 ppm	Week : 13	4.5	18	88	0.7
0806_03	16 ppm	Week : 13	11.5	17	182	0.6
0807_03	16 ppm	Week : 13	4.5	17	113	0.6
0808_03	16 ppm	Week : 13	3	16	87	0.6
0809_03	16 ppm	Week : 13	4	16	125	0.6
0810_03	16 ppm	Week : 13	3	18	125	0.6
0811_03	16 ppm	Day : 3	4.3	11	417	0.4
0811_03	16 ppm	Day : 23	4.5	13	169	0.7



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**MALE**


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Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0811_03	16 ppm	Day : 23	4.5	13	169	0.7
0812_03	16 ppm	Day : 3	5	10	208	0.4
0812_03	16 ppm	Day : 23	4.5	13	279	0.7
0813_03	16 ppm	Day : 3	5.7	12	290	0.4
0813_03	16 ppm	Day : 23	4	13	472	0.8
0814_03	16 ppm	Day : 3	5.7	12	277	0.5
0814_03	16 ppm	Day : 23	2.7	14	216	0.7
0815_03	16 ppm	Day : 3	6.7	13	327	0.5
0815_03	16 ppm	Day : 23	27	12	262	0.8
0816_03	16 ppm	Day : 3	6.7	16	736	0.5
0816_03	16 ppm	Day : 23	16.2	14	476	0.8
0817_03	16 ppm	Day : 3	8	14	644	0.5
0817_03	16 ppm	Day : 23	4.6	13	268	0.7
0818_03	16 ppm	Day : 3	7.7	16	286	0.5
0818_03	16 ppm	Day : 23	9.2	14	190	0.7
0819_03	16 ppm	Day : 3	7.7	12	377	0.5
0819_03	16 ppm	Day : 23	3.5	14	349	0.8
0820_03	16 ppm	Day : 3	4.5	13	352	0.4
0820_03	16 ppm	Day : 23	4.5	13	186	0.7
1001_03	32 ppm	Week : 13	4	19	207	0.7
1002_03	32 ppm	Week : 13	2.5	17	92	0.7
1003_03	32 ppm	Week : 13	3.5	19	230	0.7

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
1004_03	32 ppm	Week : 13	2.5	16	162	0.6
1005_03	32 ppm	Week : 13	3	15	73	0.6
1006_03	32 ppm	Week : 13	0.5	14	141	0.6
1007_03	32 ppm	Week : 13	4.5	21	213	0.7
1008_03	32 ppm	Week : 13	3	15	85	0.7
1009_03	32 ppm	Week : 13	9.5	17	202	0.7
1010_03	32 ppm	Week : 13	9	18	85	0.6
1011_03	32 ppm	Day : 3	6.5	13	483	0.4
1011_03	32 ppm	Day : 23	4.5	12	170	0.8
1012_03	32 ppm	Day : 3	5.7	15	813	0.4
1012_03	32 ppm	Day : 23	3	13	171	0.8
1013_03	32 ppm	Day : 3	8.5	14	538	0.5
1013_03	32 ppm	Day : 23	5.8	13	227	0.8
1014_03	32 ppm	Day : 3	12	13	364	0.4
1014_03	32 ppm	Day : 23	3.5	12	201	0.7
1015_03	32 ppm	Day : 3	8.5	14	530	0.5
1015_03	32 ppm	Day : 23	4	12	245	0.8
1016_03	32 ppm	Day : 3	6	13	416	0.5
1016_03	32 ppm	Day : 23	4.5	12	161	0.8
1017_03	32 ppm	Day : 3	10.2	14	366	0.4
1017_03	32 ppm	Day : 23	5.5	14	238	0.7
1018_03	32 ppm	Day : 3	7.5	13	600	0.5

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
1018_03	32 ppm	Day : 3	7.5	13	600	0.5
1018_03	32 ppm	Day : 23	5.5	14	568	0.8
1019_03	32 ppm	Day : 3	4.8	12	672	0.5
1019_03	32 ppm	Day : 23	5	12	245	0.8
1020_03	32 ppm	Day : 3	6	13	289	0.5
1020_03	32 ppm	Day : 23	8.5	14	362	0.8

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0001_03	0 ppm	Week : 13	3	7	12
0002_03	0 ppm	Week : 13	3.7	7.7	13
0003_03	0 ppm	Week : 13	2.9	6.9	14
0004_03	0 ppm	Week : 13	3.1	7.1	11
0005_03	0 ppm	Week : 13	3.1	6.9	12
0006_03	0 ppm	Week : 13	2.6	6.8	9
0007_03	0 ppm	Week : 13	3.1	7	12
0008_03	0 ppm	Week : 13	3.5	7.3	13
0009_03	0 ppm	Week : 13	3.1	6.7	11
0010_03	0 ppm	Week : 13	3	7.1	13
0011_03	0 ppm	Day : 3	1.9	5.1	5
0011_03	0 ppm	Day : 23	2.4	6.5	9
0012_03	0 ppm	Day : 3	2.1	5.1	5
0012_03	0 ppm	Day : 23	2.2	6.4	7
0013_03	0 ppm	Day : 3	2.1	5.3	5
0013_03	0 ppm	Day : 23	2.2	6.5	7
0014_03	0 ppm	Day : 3	2.3	5.4	8
0014_03	0 ppm	Day : 23	2.2	6.6	7
0015_03	0 ppm	Day : 3	2	5.2	7
0015_03	0 ppm	Day : 23	2.1	6.4	9
0016_03	0 ppm	Day : 3	2	5.3	7
0016_03	0 ppm	Day : 23	1.5	6.1	9

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**MALE**


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Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0017_03	0 ppm	Day : 3	2.1	5.2	9
0017_03	0 ppm	Day : 23	1.9	6.3	8
0018_03	0 ppm	Day : 3	1.7	5	9
0018_03	0 ppm	Day : 23	2.2	6.7	7
0019_03	0 ppm	Day : 3	1.9	5.3	10
0019_03	0 ppm	Day : 23	1.8	6.2	7
0020_03	0 ppm	Day : 3	1.9	5.2	10
0020_03	0 ppm	Day : 23	1.7	6.2	8
0201_03	2 ppm	Week : 13	2.9	7.1	17
0202_03	2 ppm	Week : 13	3	7	9
0203_03	2 ppm	Week : 13	3.2	7.1	11
0204_03	2 ppm	Week : 13	3	7	38*
0205_03	2 ppm	Week : 13	3.3	7.3	12
0206_03	2 ppm	Week : 13	3.4	7.4	10
0207_03	2 ppm	Week : 13	2.7	6.6	11
0208_03	2 ppm	Week : 13	2.9	6.8	10
0209_03	2 ppm	Week : 13	3.1	7.1	15
0210_03	2 ppm	Week : 13	2.7	7	12
0211_03	2 ppm	Day : 3	2.1	5.3	6
0212_03	2 ppm	Day : 3	2.1	5.2	6
0212_03	2 ppm	Day : 23	1.9	6.2	7
0213_03	2 ppm	Day : 3	2.1	5.1	7

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0213_03	2 ppm	Day : 23	2	6.6	6
0214_03	2 ppm	Day : 3	2.2	5.6	8
0214_03	2 ppm	Day : 23	2	6.3	8
0215_03	2 ppm	Day : 3	2.1	5.4	8
0215_03	2 ppm	Day : 23	2.2	6.5	8
0216_03	2 ppm	Day : 3	2.3	5.6	8
0216_03	2 ppm	Day : 23	2	6.5	8
0217_03	2 ppm	Day : 3	1.9	5.1	8
0217_03	2 ppm	Day : 23	2.1	6.4	6
0218_03	2 ppm	Day : 3	2.1	5.4	8
0218_03	2 ppm	Day : 23	1.9	6.4	6
0219_03	2 ppm	Day : 3	2	5.2	6
0219_03	2 ppm	Day : 23	2.6	6.9	11
0220_03	2 ppm	Day : 3	2.3	5.6	8
0220_03	2 ppm	Day : 23	2.1	6.7	11
0401_03	4 ppm	Week : 13	2.8	6.7	7
0402_03	4 ppm	Week : 13	3.2	7.1	14
0403_03	4 ppm	Week : 13	3	7	14
0404_03	4 ppm	Week : 13	2.9	6.8	10
0405_03	4 ppm	Week : 13	3.6	7.7	13
0406_03	4 ppm	Week : 13	3	7.1	8
0407_03	4 ppm	Week : 13	2.7	6.9	13

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0408_03	4 ppm	Week : 13	2.8	6.8	11
0409_03	4 ppm	Week : 13	2.9	6.8	15
0410_03	4 ppm	Week : 13	2.9	7.1	10
0411_03	4 ppm	Day : 3	2.1	5.4	6
0411_03	4 ppm	Day : 23	2.3	6.7	8
0412_03	4 ppm	Day : 3	2	5.4	6
0412_03	4 ppm	Day : 23	2	6.2	6
0413_03	4 ppm	Day : 3	2.3	5.4	8
0413_03	4 ppm	Day : 23	2.1	6.5	5
0414_03	4 ppm	Day : 3	1.9	4.9	6
0414_03	4 ppm	Day : 23	2.1	6.2	7
0415_03	4 ppm	Day : 3	2.1	5.4	6
0415_03	4 ppm	Day : 23	2	6.3	8
0416_03	4 ppm	Day : 3	2.6	6.7	11
0417_03	4 ppm	Day : 3	2	5.4	8
0417_03	4 ppm	Day : 23	2.1	6.4	7
0418_03	4 ppm	Day : 3	2.1	5.7	10
0418_03	4 ppm	Day : 23	1.9	6.4	7
0419_03	4 ppm	Day : 3	2.2	5.9	6
0419_03	4 ppm	Day : 23	2	6.3	11
0420_03	4 ppm	Day : 3	2.2	5.5	7
0420_03	4 ppm	Day : 23	2.1	6.3	21

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0601_03	8 ppm	Week : 13	2.9	7	14
0602_03	8 ppm	Week : 13	2.9	7.2	13
0603_03	8 ppm	Week : 13	3.1	7.2	18
0604_03	8 ppm	Week : 13	3.1	7.1	8
0605_03	8 ppm	Week : 13	2.9	7.2	13
0606_03	8 ppm	Week : 13	3.1	7	10
0607_03	8 ppm	Week : 13	3.3	7.1	14
0608_03	8 ppm	Week : 13	3.2	7.1	11
0609_03	8 ppm	Week : 13	2.8	6.6	10
0610_03	8 ppm	Week : 13	2.8	6.7	13
0611_03	8 ppm	Day : 3	1.9	4.9	3
0611_03	8 ppm	Day : 23	1.8	6	9
0612_03	8 ppm	Day : 3	1.7	5.2	7
0612_03	8 ppm	Day : 23	1.9	6.2	15
0613_03	8 ppm	Day : 3	2.3	5.5	8
0613_03	8 ppm	Day : 23	1.8	5.8	11
0614_03	8 ppm	Day : 3	1.7	5.3	6
0614_03	8 ppm	Day : 23	1.9	6.3	9
0615_03	8 ppm	Day : 3	2.2	5.7	4
0615_03	8 ppm	Day : 23	2.1	6.5	9
0616_03	8 ppm	Day : 3	2.4	5.6	5
0616_03	8 ppm	Day : 23	2	6.2	10



Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0617_03	8 ppm	Day : 3	1.9	5.1	8
0617_03	8 ppm	Day : 23	2	6.4	7
0618_03	8 ppm	Day : 3	2.3	5.6	5
0618_03	8 ppm	Day : 23	2.2	6	5
0619_03	8 ppm	Day : 3	2.2	5.6	6
0619_03	8 ppm	Day : 23	1.7	6	9
0620_03	8 ppm	Day : 3	2.3	5.6	6
0620_03	8 ppm	Day : 23	2.1	6.3	10
0801_03	16 ppm	Week : 13	3.1	7.2	13
0802_03	16 ppm	Week : 13	3.2	7.2	13
0803_03	16 ppm	Week : 13	2.8	6.9	15
0804_03	16 ppm	Week : 13	3.3	7.3	16
0805_03	16 ppm	Week : 13	2.8	7.1	12
0806_03	16 ppm	Week : 13	2.8	6.7	13
0807_03	16 ppm	Week : 13	3.1	7.2	10
0808_03	16 ppm	Week : 13	3.1	7.2	9
0809_03	16 ppm	Week : 13	2.7	6.8	10
0810_03	16 ppm	Week : 13	3.1	7	8
0811_03	16 ppm	Day : 3	1.8	5	4
0811_03	16 ppm	Day : 23	1.8	6.1	9
0812_03	16 ppm	Day : 3	2.1	5.5	5
0812_03	16 ppm	Day : 23	1.7	5.8	10

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0813_03	16 ppm	Day : 3	2.3	5.4	6
0813_03	16 ppm	Day : 23	1.6	5.8	9
0814_03	16 ppm	Day : 3	2	5.4	7
0814_03	16 ppm	Day : 23	1.9	6.3	8
0815_03	16 ppm	Day : 3	2.1	5.4	8
0815_03	16 ppm	Day : 23	2.1	6.6	8
0816_03	16 ppm	Day : 3	2.1	5.6	6
0816_03	16 ppm	Day : 23	1.8	6.1	8
0817_03	16 ppm	Day : 3	1.9	5.5	6
0817_03	16 ppm	Day : 23	1.4	6.1	9
0818_03	16 ppm	Day : 3	2.2	5.8	9
0818_03	16 ppm	Day : 23	1.7	6.2	10
0819_03	16 ppm	Day : 3	1.8	5.5	10
0819_03	16 ppm	Day : 23	1.6	6.1	9
0820_03	16 ppm	Day : 3	2.3	5.7	7
0820_03	16 ppm	Day : 23	2.1	6.4	7
1001_03	32 ppm	Week : 13	2.7	6.6	13
1002_03	32 ppm	Week : 13	3.3	7.2	11
1003_03	32 ppm	Week : 13	2.8	6.9	9
1004_03	32 ppm	Week : 13	2.6	6.5	10
1005_03	32 ppm	Week : 13	2.9	6.7	7
1006_03	32 ppm	Week : 13	3.1	6.8	9

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
1007_03	32 ppm	Week : 13	2.9	6.8	13
1008_03	32 ppm	Week : 13	3	7.1	8
1009_03	32 ppm	Week : 13	3.3	7.2	10
1010_03	32 ppm	Week : 13	3.3	7.3	8
1011_03	32 ppm	Day : 3	1.9	5	5
1011_03	32 ppm	Day : 23	1.5	5.9	9
1012_03	32 ppm	Day : 3	2	5.2	10
1012_03	32 ppm	Day : 23	2.1	6.2	9
1013_03	32 ppm	Day : 3	2	5.4	6
1013_03	32 ppm	Day : 23	1.6	6	10
1014_03	32 ppm	Day : 3	2.2	5.7	8
1014_03	32 ppm	Day : 23	2.1	6.5	10
1015_03	32 ppm	Day : 3	2.1	5.5	5
1015_03	32 ppm	Day : 23	1.5	5.8	10
1016_03	32 ppm	Day : 3	2.2	5.9	12
1016_03	32 ppm	Day : 23	1.8	6.4	8
1017_03	32 ppm	Day : 3	2.1	5.4	9
1017_03	32 ppm	Day : 23	2.1	6.3	9
1018_03	32 ppm	Day : 3	2.1	5.6	8
1018_03	32 ppm	Day : 23	1.7	6.2	11
1019_03	32 ppm	Day : 3	2	5.5	4
1019_03	32 ppm	Day : 23	1.6	6.1	8

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
1020_03	32 ppm	Day : 3	2.3	5.7	9
1020_03	32 ppm	Day : 23	1.6	6.4	13

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0101_03	0 ppm	Week : 13	4.2	1.4	188	43
0102_03	0 ppm	Week : 13	4.4	1.69	242	43
0103_03	0 ppm	Week : 13	4	1.38	200	34
0104_03	0 ppm	Week : 13	4.6	1.7	229	62
0105_03	0 ppm	Week : 13	4.2	1.5	235	40
0106_03	0 ppm	Week : 13	3.9	1.18	249	35
0107_03	0 ppm	Week : 13	4.6	1.7	213	39
0108_03	0 ppm	Week : 13	4.6	1.64	258	40
0109_03	0 ppm	Week : 13	4	1.38	256	60
0110_03	0 ppm	Week : 13	4.5	1.61	273	48
0111_03	0 ppm	Day : 3	3.4	1.55	562	39
0111_03	0 ppm	Day : 23	4.1	1.95	454	32
0112_03	0 ppm	Day : 3	3.3	1.57	524	43
0112_03	0 ppm	Day : 23	4.5	2.37	420	30
0113_03	0 ppm	Day : 3	3.7	1.86	556	39
0113_03	0 ppm	Day : 23	4.3	2.26	536	38
0114_03	0 ppm	Day : 3	3.3	1.57	548	39
0114_03	0 ppm	Day : 23	4.8	2.29	447	29
0115_03	0 ppm	Day : 3	3.6	2	580	46
0115_03	0 ppm	Day : 23	4.4	2.32	464	33
0116_03	0 ppm	Day : 3	3.2	2.13	536	38
0116_03	0 ppm	Day : 23	4.4	2.93	425	24

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0117_03	0 ppm	Day : 3	3.2	1.88	504	38
0117_03	0 ppm	Day : 23	4.4	2.59	362	24
0118_03	0 ppm	Day : 3	3.1	1.55	499	41
0118_03	0 ppm	Day : 23	4.7	2.61	448	24
0119_03	0 ppm	Day : 3	3.1	1.63	573	42
0119_03	0 ppm	Day : 23	4.6	2.71	430	28
0120_03	0 ppm	Day : 3	3.3	1.94	548	36
0120_03	0 ppm	Day : 23	4.4	3.14	447	25
0301_03	2 ppm	Week : 13	4.3	1.48	205	44
0302_03	2 ppm	Week : 13	4.4	1.52	243	43
0303_03	2 ppm	Week : 13	4.2	1.75	250	37
0304_03	2 ppm	Week : 13	4.6	1.48	227	45
0305_03	2 ppm	Week : 13	4.5	1.67	241	42
0306_03	2 ppm	Week : 13	4.1	1.64	246	50
0307_03	2 ppm	Week : 13	4.1	1.32	198	45
0308_03	2 ppm	Week : 13	4.2	1.4	238	57
0309_03	2 ppm	Week : 13	4.1	1.64	217	70
0310_03	2 ppm	Week : 13	4.1	1.32	255	42
0311_03	2 ppm	Day : 3	3.5	2.06	491	36
0311_03	2 ppm	Day : 23	4.4	2.59	472	29
0312_03	2 ppm	Day : 3	3.5	1.84	562	42
0312_03	2 ppm	Day : 23	4.1	2.05	437	36

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:43

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0313_03	2 ppm	Day : 3	3.4	1.62	511	44
0313_03	2 ppm	Day : 23	4.1	1.95	460	35
0314_03	2 ppm	Day : 3	3.6	1.89	546	40
0314_03	2 ppm	Day : 23	4.2	2.47	398	27
0315_03	2 ppm	Day : 3	3.6	2	478	40
0315_03	2 ppm	Day : 23	4.2	2.21	401	31
0316_03	2 ppm	Day : 3	3.6	1.71	614	46
0316_03	2 ppm	Day : 23	4.1	1.95	470	25
0317_03	2 ppm	Day : 3	3.7	2.06	558	42
0317_03	2 ppm	Day : 23	4.3	2.26	403	29
0318_03	2 ppm	Day : 3	3.5	1.94	613	53
0318_03	2 ppm	Day : 23	3.9	2.05	385	25
0319_03	2 ppm	Day : 3	3.5	1.94	541	44
0319_03	2 ppm	Day : 23	4.3	2.39	449	28
0320_03	2 ppm	Day : 3	3.4	1.48	567	50
0320_03	2 ppm	Day : 23	4.3	2.15	427	30
0501_03	4 ppm	Week : 13	4.2	1.62	302	41
0502_03	4 ppm	Week : 13	4.4	1.47	267	50
0503_03	4 ppm	Week : 13	4.5	1.41	244	58
0504_03	4 ppm	Week : 13	4.4	1.57	252	57
0505_03	4 ppm	Week : 13	4.2	1.4	184	36
0506_03	4 ppm	Week : 13	4.3	1.54	266	56

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0507_03	4 ppm	Week : 13	4.4	1.52	232	49
0508_03	4 ppm	Week : 13	4.2	1.56	195	42
0509_03	4 ppm	Week : 13	4.2	1.45	215	38
0510_03	4 ppm	Week : 13	4.3	1.48	242	45
0511_03	4 ppm	Day : 3	3.3	1.74	493	39
0511_03	4 ppm	Day : 23	4.4	2.2	435	36
0512_03	4 ppm	Day : 3	3.2	1.6	560	41
0512_03	4 ppm	Day : 23	4.2	2.8	516	35
0513_03	4 ppm	Day : 3	3.6	1.89	543	39
0513_03	4 ppm	Day : 23	4.3	2.15	525	33
0514_03	4 ppm	Day : 3	3.8	2.24	559	42
0514_03	4 ppm	Day : 23	4.4	2.1	478	36
0515_03	4 ppm	Day : 3	3.6	2.12	488	41
0515_03	4 ppm	Day : 23	4.3	2.39	496	33
0516_03	4 ppm	Day : 3	3.4	1.79	554	43
0516_03	4 ppm	Day : 23	4.4	2.1	498	35
0517_03	4 ppm	Day : 3	3.5	1.84	471	40
0517_03	4 ppm	Day : 23	4.3	2.39	413	29
0518_03	4 ppm	Day : 3	3.6	1.8	511	41
0518_03	4 ppm	Day : 23	4.5	3	415	28
0519_03	4 ppm	Day : 3	3.7	1.95	556	38
0519_03	4 ppm	Day : 23	4.3	2.39	359	31



## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0520_03	4 ppm	Day : 3	3.5	1.84	541	43
0520_03	4 ppm	Day : 23	4.3	2.26	454	30
0701_03	8 ppm	Week : 13	4.5	1.67	247	45
0702_03	8 ppm	Week : 13	4.2	1.5	246	51
0703_03	8 ppm	Week : 13	4.2	1.31	226	47
0704_03	8 ppm	Week : 13	4.3	1.48	298	42
0705_03	8 ppm	Week : 13	4.4	1.52	225	44
0706_03	8 ppm	Week : 13	4.2	1.31	217	40
0707_03	8 ppm	Week : 13	4.3	1.54	171	41
0708_03	8 ppm	Week : 13	4.2	1.4	235	47
0709_03	8 ppm	Week : 13	4.1	1.37	239	41
0710_03	8 ppm	Week : 13	4.4	1.47	218	46
0711_03	8 ppm	Day : 3	3.1	1.55	532	43
0711_03	8 ppm	Day : 23	4.3	2.26	476	30
0712_03	8 ppm	Day : 3	3.3	1.65	584	41
0712_03	8 ppm	Day : 23	4.6	2.56	448	26
0713_03	8 ppm	Day : 3	3.5	2.06	462	43
0713_03	8 ppm	Day : 23	4.6	2.71	403	30
0714_03	8 ppm	Day : 3	3.2	1.33	502	40
0714_03	8 ppm	Day : 23	4.5	2.65	513	34
0715_03	8 ppm	Day : 3	3.4	1.79	543	38
0715_03	8 ppm	Day : 23	4.3	2.15	396	26

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:44

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0716_03	8 ppm	Day : 3	3.7	1.95	465	49
0716_03	8 ppm	Day : 23	4.3	2.05	434	29
0717_03	8 ppm	Day : 3	3.4	1.7	565	48
0717_03	8 ppm	Day : 23	4.5	2.37	506	29
0718_03	8 ppm	Day : 3	3.4	1.89	570	42
0718_03	8 ppm	Day : 23	4.4	2.2	436	26
0719_03	8 ppm	Day : 3	3	1.3	493	44
0719_03	8 ppm	Day : 23	4.6	2.56	494	35
0720_03	8 ppm	Day : 3	3.7	2.18	472	37
0720_03	8 ppm	Day : 23	4.5	2.65	427	31
0901_03	16 ppm	Week : 13	4.4	1.57	248	47
0902_03	16 ppm	Week : 13	4.4	1.52	214	49
0903_03	16 ppm	Week : 13	4.2	1.68	251	43
0904_03	16 ppm	Week : 13	4.1	1.46	283	50
0905_03	16 ppm	Week : 13	4.4	1.52	195	54
0906_03	16 ppm	Week : 13	4.4	1.57	225	44
0907_03	16 ppm	Week : 13	4	1.43	234	38
0908_03	16 ppm	Week : 13	4.2	1.4	227	46
0909_03	16 ppm	Week : 13	4.2	1.45	226	53
0910_03	16 ppm	Week : 13	4.2	1.45	234	51
0911_03	16 ppm	Day : 3	3.3	1.94	435	43
0911_03	16 ppm	Day : 23	4.5	2.5	475	35

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**FEMALE**


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Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0912_03	16 ppm	Day : 3	3.4	2	532	42
0912_03	16 ppm	Day : 23	4.2	2.33	452	31
0913_03	16 ppm	Day : 3	3.4	1.79	448	38
0913_03	16 ppm	Day : 23	4.4	2.1	447	33
0914_03	16 ppm	Day : 3	3.7	2.06	607	43
0914_03	16 ppm	Day : 23	4.3	2.39	507	27
0915_03	16 ppm	Day : 3	3.7	1.95	427	42
0915_03	16 ppm	Day : 23	4.3	2.26	459	34
0916_03	16 ppm	Day : 3	3.5	1.67	423	41
0916_03	16 ppm	Day : 23	4.1	2.41	410	21
0917_03	16 ppm	Day : 3	3.2	1.68	514	40
0917_03	16 ppm	Day : 23	4.5	3	423	22
0918_03	16 ppm	Day : 3	3.3	2.54	524	46
0918_03	16 ppm	Day : 23	4.5	2.5	449	29
0919_03	16 ppm	Day : 3	3.4	1.7	504	44
0919_03	16 ppm	Day : 23	4.3	2.53	402	23
0920_03	16 ppm	Day : 3	3.7	2.47	432	40
0920_03	16 ppm	Day : 23	4.8	3	374	22
1101_03	32 ppm	Week : 13	4.1	1.58	220	42
1102_03	32 ppm	Week : 13	4	1.48	192	35
1103_03	32 ppm	Week : 13	4.4	1.76	244	40
1104_03	32 ppm	Week : 13	4.1	1.46	258	33

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:44

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
1105_03	32 ppm	Week : 13	4.6	1.59	247	46
1106_03	32 ppm	Week : 13	4.1	1.32	210	45
1107_03	32 ppm	Week : 13	4.2	1.56	218	44
1108_03	32 ppm	Week : 13	4.3	1.54	217	40
1109_03	32 ppm	Week : 13	4.4	1.42	208	39
1110_03	32 ppm	Week : 13	4.3	1.54	227	55
1111_03	32 ppm	Day : 3	2.9	1.45	456	38
1111_03	32 ppm	Day : 23	4.7	2.76	410	25
1112_03	32 ppm	Day : 3	3.2	1.78	391	36
1112_03	32 ppm	Day : 23	4.4	2.75	532	28
1113_03	32 ppm	Day : 3	3.5	2.5	398	33
1113_03	32 ppm	Day : 23	4.1	2.28	321	21
1114_03	32 ppm	Day : 3	3.5	1.75	386	40
1114_03	32 ppm	Day : 23	4.1	2.05	436	23
1115_03	32 ppm	Day : 3	3.5	2.19	393	40
1115_03	32 ppm	Day : 23	4.3	3.07	444	24
1116_03	32 ppm	Day : 3	3.3	1.5	525	38
1116_03	32 ppm	Day : 23	4.3	2.39	387	28
1117_03	32 ppm	Day : 3	3.3	1.5	436	40
1117_03	32 ppm	Day : 23	4.3	2.69	348	19
1118_03	32 ppm	Day : 3	3.5	2.06	354	39
1118_03	32 ppm	Day : 23	4.2	2.8	368	26

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:44

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
1119_03	32 ppm	Day : 3	3.6	1.89	422	37
1119_03	32 ppm	Day : 23	5	3.57	404	24
1120_03	32 ppm	Day : 3	3.5	1.84	452	40
1120_03	32 ppm	Day : 23	4.6	2.88	467	24

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0101_03	0 ppm	Week : 13	13	15	80	0.7
0102_03	0 ppm	Week : 13	9.5	18	76	0.6
0103_03	0 ppm	Week : 13	18	17	177	0.6
0104_03	0 ppm	Week : 13	4.5	20	82	0.6
0105_03	0 ppm	Week : 13	33	21	67	0.8
0106_03	0 ppm	Week : 13	6	18	66	0.6
0107_03	0 ppm	Week : 13	4.5	19	94	0.7
0108_03	0 ppm	Week : 13	4.5	17	75	0.6
0109_03	0 ppm	Week : 13	15	24	78	0.7
0110_03	0 ppm	Week : 13	36.5	21	104	0.8
0111_03	0 ppm	Day : 3	6	14	479	0.5
0111_03	0 ppm	Day : 23	4.2	15	143	0.6
0112_03	0 ppm	Day : 3	12	14	297	0.5
0112_03	0 ppm	Day : 23	4.2	16	246	0.7
0113_03	0 ppm	Day : 3	16	12	450	0.5
0113_03	0 ppm	Day : 23	2.7	16	211	0.7
0114_03	0 ppm	Day : 3	4.3	15	343	0.5
0114_03	0 ppm	Day : 23	6	15	314	0.6
0115_03	0 ppm	Day : 3	8	15	319	0.5
0115_03	0 ppm	Day : 23	10.5	17	199	0.7
0116_03	0 ppm	Day : 3	10	20	405	0.6
0116_03	0 ppm	Day : 23	5.2	12	130	0.7

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0117_03	0 ppm	Day : 3	8.5	17	421	0.5
0117_03	0 ppm	Day : 23	4.2	14	122	0.7
0118_03	0 ppm	Day : 3	11.5	19	576	0.6
0118_03	0 ppm	Day : 23	2.7	16	386	0.7
0119_03	0 ppm	Day : 3	8.5	17	456	0.5
0119_03	0 ppm	Day : 23	10.5	13	137	0.7
0120_03	0 ppm	Day : 3	6	16	530	0.5
0120_03	0 ppm	Day : 23	5.2	13	165	0.7
0301_03	2 ppm	Week : 13	21	15	59	0.6
0302_03	2 ppm	Week : 13	22.5	17	121	0.6
0303_03	2 ppm	Week : 13	3	17	107	0.6
0304_03	2 ppm	Week : 13	3	19	64	0.6
0305_03	2 ppm	Week : 13	7.5	18	66	0.7
0306_03	2 ppm	Week : 13	15	19	113	0.6
0307_03	2 ppm	Week : 13	16.5	19	162	0.7
0308_03	2 ppm	Week : 13	7.5	21	54	0.7
0309_03	2 ppm	Week : 13	9	18	57	0.6
0310_03	2 ppm	Week : 13	9	17	48	0.6
0311_03	2 ppm	Day : 3	9.5	16	317	0.5
0311_03	2 ppm	Day : 23	6	14	150	0.7
0312_03	2 ppm	Day : 3	10.5	11	400	0.5
0312_03	2 ppm	Day : 23	5.2	15	332	0.7

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0312_03	2 ppm	Day : 23	5.2	15	332	0.7
0313_03	2 ppm	Day : 3	6.5	14	375	0.4
0313_03	2 ppm	Day : 23	15	17	367	0.6
0314_03	2 ppm	Day : 3	9	16	436	0.5
0314_03	2 ppm	Day : 23	5.8	17	302	0.7
0315_03	2 ppm	Day : 3	12.5	14	332	0.5
0315_03	2 ppm	Day : 23	4.6	14	425	0.7
0316_03	2 ppm	Day : 3	28	15	372	0.6
0316_03	2 ppm	Day : 23	7.5	14	141	0.6
0317_03	2 ppm	Day : 3	5.7	13	323	0.5
0317_03	2 ppm	Day : 23	4.2	14	584	0.6
0318_03	2 ppm	Day : 3	13.2	16	265	0.6
0318_03	2 ppm	Day : 23	2.7	14	248	0.7
0319_03	2 ppm	Day : 3	9	13	328	0.5
0319_03	2 ppm	Day : 23	5.8	15	471	0.7
0320_03	2 ppm	Day : 3	14	18	372	0.6
0320_03	2 ppm	Day : 23	5.5	14	252	0.5
0501_03	4 ppm	Week : 13	3.5	17	72	0.6
0502_03	4 ppm	Week : 13	5	19	178	0.7
0503_03	4 ppm	Week : 13	18.5	18	136	0.7
0504_03	4 ppm	Week : 13	10	17	60	0.7
0505_03	4 ppm	Week : 13	5	16	139	0.6



## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0506_03	4 ppm	Week : 13	2.5	19	107	0.7
0507_03	4 ppm	Week : 13	4.5	17	83	0.7
0508_03	4 ppm	Week : 13	9	17	74	0.6
0509_03	4 ppm	Week : 13	15	20	89	0.6
0510_03	4 ppm	Week : 13	16.5	20	109	0.6
0511_03	4 ppm	Day : 3	11.5	15	390	0.4
0511_03	4 ppm	Day : 23	5.5	15	187	0.7
0512_03	4 ppm	Day : 3	15	12	584	0.5
0512_03	4 ppm	Day : 23	5.2	13	298	0.7
0513_03	4 ppm	Day : 3	7.5	15	214	0.5
0513_03	4 ppm	Day : 23	14	15	234	0.6
0514_03	4 ppm	Day : 3	15.5	15	314	0.5
0514_03	4 ppm	Day : 23	7.5	17	256	0.7
0515_03	4 ppm	Day : 3	13.2	11	186	0.5
0515_03	4 ppm	Day : 23	4	13	406	0.7
0516_03	4 ppm	Day : 3	5.5	11	450	0.6
0516_03	4 ppm	Day : 23	3.5	16	621	0.7
0517_03	4 ppm	Day : 3	16	16	481	0.5
0517_03	4 ppm	Day : 23	10.5	14	228	0.7
0518_03	4 ppm	Day : 3	9	14	286	0.6
0518_03	4 ppm	Day : 23	8.7	14	156	0.7
0519_03	4 ppm	Day : 3	8.5	15	318	0.6

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0519_03	4 ppm	Day : 3	8.5	15	318	0.6
0519_03	4 ppm	Day : 23	7.5	12	282	0.8
0520_03	4 ppm	Day : 3	17.5	13	421	0.6
0520_03	4 ppm	Day : 23	4.2	14	273	0.7
0701_03	8 ppm	Week : 13	5	21	66	0.6
0702_03	8 ppm	Week : 13	24.5	19	90	0.6
0703_03	8 ppm	Week : 13	5	16	82	0.6
0704_03	8 ppm	Week : 13	22	18	72	0.6
0705_03	8 ppm	Week : 13	7	18	112	0.6
0706_03	8 ppm	Week : 13	4.5	20	132	0.6
0707_03	8 ppm	Week : 13	4.5	16	127	0.6
0708_03	8 ppm	Week : 13	15.5	18	81	0.6
0709_03	8 ppm	Week : 13	4.5	21	168	0.6
0710_03	8 ppm	Week : 13	22.5	20	63	0.6
0711_03	8 ppm	Day : 3	6	13	396	0.4
0711_03	8 ppm	Day : 23	4.5	14	162	0.6
0712_03	8 ppm	Day : 3	10.2	16	333	0.5
0712_03	8 ppm	Day : 23	5.2	15	264	0.7
0713_03	8 ppm	Day : 3	15.2	15	775	0.5
0713_03	8 ppm	Day : 23	3	16	204	0.7
0714_03	8 ppm	Day : 3	12.2	14	418	0.5
0714_03	8 ppm	Day : 23	11.4	18	216	0.7

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0715_03	8 ppm	Day : 3	7	12	406	0.5
0715_03	8 ppm	Day : 23	22	16	246	0.7
0716_03	8 ppm	Day : 3	7.7	17	458	0.5
0716_03	8 ppm	Day : 23	7.5	17	192	0.7
0717_03	8 ppm	Day : 3	7.7	13	333	0.6
0717_03	8 ppm	Day : 23	11.4	14	384	0.8
0718_03	8 ppm	Day : 3	7.7	11	360	0.5
0718_03	8 ppm	Day : 23	4.6	17	292	0.7
0719_03	8 ppm	Day : 3	17	15	304	0.6
0719_03	8 ppm	Day : 23	2.7	16	374	0.7
0720_03	8 ppm	Day : 3	10	14	290	0.5
0720_03	8 ppm	Day : 23	4.6	14	144	0.7
0901_03	16 ppm	Week : 13	9.5	19	91	0.6
0902_03	16 ppm	Week : 13	7.5	16	100	0.7
0903_03	16 ppm	Week : 13	5.5	20	77	0.6
0904_03	16 ppm	Week : 13	3.5	19	76	0.5
0905_03	16 ppm	Week : 13	14	18	115	0.7
0906_03	16 ppm	Week : 13	11.5	20	127	0.6
0907_03	16 ppm	Week : 13	7	15	132	0.7
0908_03	16 ppm	Week : 13	18	17	146	0.7
0909_03	16 ppm	Week : 13	21	18	118	0.6
0910_03	16 ppm	Week : 13	59	17	152	0.7

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0910_03	16 ppm	Week : 13	59	17	152	0.7
0911_03	16 ppm	Day : 3	9	15	312	0.4
0911_03	16 ppm	Day : 23	7	15	233	0.6
0912_03	16 ppm	Day : 3	9.5	15	587	0.5
0912_03	16 ppm	Day : 23	3.5	12	157	0.7
0913_03	16 ppm	Day : 3	9.5	13	232	0.5
0913_03	16 ppm	Day : 23	33.5	14	264	0.6
0914_03	16 ppm	Day : 3	10.7	17	328	0.5
0914_03	16 ppm	Day : 23	7.5	13	246	0.7
0915_03	16 ppm	Day : 3	5	13	265	0.5
0915_03	16 ppm	Day : 23	4.5	14	190	0.6
0916_03	16 ppm	Day : 3	9	16	507	0.5
0916_03	16 ppm	Day : 23	6.5	13	188	0.7
0917_03	16 ppm	Day : 3	8.5	11	515	0.5
0917_03	16 ppm	Day : 23	7.8	14	338	0.7
0918_03	16 ppm	Day : 3	6.5	15	390	0.5
0918_03	16 ppm	Day : 23	16	14	288	0.6
0919_03	16 ppm	Day : 3	6.7	15	581	0.5
0919_03	16 ppm	Day : 23	3.5	16	151	0.7
0920_03	16 ppm	Day : 3	16.5	17	470	0.6
0920_03	16 ppm	Day : 23	8.7	13	240	0.7
1101_03	32 ppm	Week : 13	12.5	18	104	0.6

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
1102_03	32 ppm	Week : 13	4	14	82	0.5
1103_03	32 ppm	Week : 13	7.5	15	117	0.6
1104_03	32 ppm	Week : 13	2	14	204	0.6
1105_03	32 ppm	Week : 13	11.5	18	91	0.7
1106_03	32 ppm	Week : 13	50	18	72	0.7
1107_03	32 ppm	Week : 13	3	16	91	0.6
1108_03	32 ppm	Week : 13	6.5	14	109	0.6
1109_03	32 ppm	Week : 13	5	19	76	0.7
1110_03	32 ppm	Week : 13	11.5	20	122	0.6
1111_03	32 ppm	Day : 3	3.5	15	291	0.4
1111_03	32 ppm	Day : 23	4.6	16	269	0.6
1112_03	32 ppm	Day : 3	7.5	13	861	0.4
1112_03	32 ppm	Day : 23	5.2	14	137	0.7
1113_03	32 ppm	Day : 3	6.7	14	514	0.5
1113_03	32 ppm	Day : 23	8.5	13	140	0.7
1114_03	32 ppm	Day : 3	10.5	17	424	0.5
1114_03	32 ppm	Day : 23	9.2	12	335	0.7
1115_03	32 ppm	Day : 3	9	13	579	0.4
1115_03	32 ppm	Day : 23	13.3	11	242	0.6
1116_03	32 ppm	Day : 3	5.5	11	553	0.5
1116_03	32 ppm	Day : 23	25	16	593	0.7
1117_03	32 ppm	Day : 3	5	12	435	0.5

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
1117_03	32 ppm	Day : 3	5	12	435	0.5
1117_03	32 ppm	Day : 23	4	13	395	0.7
1118_03	32 ppm	Day : 3	4.8	11	309	0.5
1118_03	32 ppm	Day : 23	7	12	362	0.7
1119_03	32 ppm	Day : 3	4.3	16	536	0.4
1119_03	32 ppm	Day : 23	4.5	16	153	0.6
1120_03	32 ppm	Day : 3	8.5	13	366	0.5
1120_03	32 ppm	Day : 23	3.5	18	220	0.6

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

FEMALE

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0101_03	0 ppm	Week : 13	3	7.2	9
0102_03	0 ppm	Week : 13	2.6	7	6
0103_03	0 ppm	Week : 13	2.9	6.9	9
0104_03	0 ppm	Week : 13	2.7	7.3	12
0105_03	0 ppm	Week : 13	2.8	7	7
0106_03	0 ppm	Week : 13	3.3	7.2	7
0107_03	0 ppm	Week : 13	2.7	7.3	6
0108_03	0 ppm	Week : 13	2.8	7.4	5
0109_03	0 ppm	Week : 13	2.9	6.9	12
0110_03	0 ppm	Week : 13	2.8	7.3	12
0111_03	0 ppm	Day : 3	2.2	5.6	9
0111_03	0 ppm	Day : 23	2.1	6.2	12
0112_03	0 ppm	Day : 3	2.1	5.4	9
0112_03	0 ppm	Day : 23	1.9	6.4	13
0113_03	0 ppm	Day : 3	2	5.7	9
0113_03	0 ppm	Day : 23	1.9	6.2	13
0114_03	0 ppm	Day : 3	2.1	5.4	9
0114_03	0 ppm	Day : 23	2.1	6.9	11
0115_03	0 ppm	Day : 3	1.8	5.4	11
0115_03	0 ppm	Day : 23	1.9	6.3	11
0116_03	0 ppm	Day : 3	1.5	4.7	9
0116_03	0 ppm	Day : 23	1.5	5.9	8

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

FEMALE

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0117_03	0 ppm	Day : 3	1.7	4.9	10
0117_03	0 ppm	Day : 23	1.7	6.1	8
0118_03	0 ppm	Day : 3	2	5.1	6
0118_03	0 ppm	Day : 23	1.8	6.5	13
0119_03	0 ppm	Day : 3	1.9	5	11
0119_03	0 ppm	Day : 23	1.7	6.3	9
0120_03	0 ppm	Day : 3	1.7	5	6
0120_03	0 ppm	Day : 23	1.4	5.8	8
0301_03	2 ppm	Week : 13	2.9	7.2	6
0302_03	2 ppm	Week : 13	2.9	7.3	10
0303_03	2 ppm	Week : 13	2.4	6.6	8
0304_03	2 ppm	Week : 13	3.1	7.7	7
0305_03	2 ppm	Week : 13	2.7	7.2	6
0306_03	2 ppm	Week : 13	2.5	6.6	10
0307_03	2 ppm	Week : 13	3.1	7.2	11
0308_03	2 ppm	Week : 13	3	7.2	9
0309_03	2 ppm	Week : 13	2.5	6.6	8
0310_03	2 ppm	Week : 13	3.1	7.2	5
0311_03	2 ppm	Day : 3	1.7	5.2	7
0311_03	2 ppm	Day : 23	1.7	6.1	11
0312_03	2 ppm	Day : 3	1.9	5.4	9
0312_03	2 ppm	Day : 23	2	6.1	13



Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0313_03	2 ppm	Day : 3	2.1	5.5	8
0313_03	2 ppm	Day : 23	2.1	6.2	12
0314_03	2 ppm	Day : 3	1.9	5.5	10
0314_03	2 ppm	Day : 23	1.7	5.9	11
0315_03	2 ppm	Day : 3	1.8	5.4	10
0315_03	2 ppm	Day : 23	1.9	6.1	10
0316_03	2 ppm	Day : 3	2.1	5.7	13
0316_03	2 ppm	Day : 23	2.1	6.2	11
0317_03	2 ppm	Day : 3	1.8	5.5	8
0317_03	2 ppm	Day : 23	1.9	6.2	12
0318_03	2 ppm	Day : 3	1.8	5.3	11
0318_03	2 ppm	Day : 23	1.9	5.8	12
0319_03	2 ppm	Day : 3	1.8	5.3	10
0319_03	2 ppm	Day : 23	1.8	6.1	13
0320_03	2 ppm	Day : 3	2.3	5.7	13
0320_03	2 ppm	Day : 23	2	6.3	12
0501_03	4 ppm	Week : 13	2.6	6.8	7
0502_03	4 ppm	Week : 13	3	7.4	13
0503_03	4 ppm	Week : 13	3.2	7.7	11
0504_03	4 ppm	Week : 13	2.8	7.2	8
0505_03	4 ppm	Week : 13	3	7.2	7
0506_03	4 ppm	Week : 13	2.8	7.1	9

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0507_03	4 ppm	Week : 13	2.9	7.3	8
0508_03	4 ppm	Week : 13	2.7	6.9	6
0509_03	4 ppm	Week : 13	2.9	7.1	7
0510_03	4 ppm	Week : 13	2.9	7.2	7
0511_03	4 ppm	Day : 3	1.9	5.2	7
0511_03	4 ppm	Day : 23	2	6.4	11
0512_03	4 ppm	Day : 3	2	5.2	10
0512_03	4 ppm	Day : 23	1.5	5.7	10
0513_03	4 ppm	Day : 3	1.9	5.5	7
0513_03	4 ppm	Day : 23	2	6.3	10
0514_03	4 ppm	Day : 3	1.7	5.5	9
0514_03	4 ppm	Day : 23	2.1	6.5	12
0515_03	4 ppm	Day : 3	1.7	5.3	7
0515_03	4 ppm	Day : 23	1.8	6.1	12
0516_03	4 ppm	Day : 3	1.9	5.3	13
0516_03	4 ppm	Day : 23	2.1	6.5	12
0517_03	4 ppm	Day : 3	1.9	5.4	6
0517_03	4 ppm	Day : 23	1.8	6.1	12
0518_03	4 ppm	Day : 3	2	5.6	12
0518_03	4 ppm	Day : 23	1.5	6	10
0519_03	4 ppm	Day : 3	1.9	5.6	12
0519_03	4 ppm	Day : 23	1.8	6.1	13

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0520_03	4 ppm	Day : 3	1.9	5.4	13
0520_03	4 ppm	Day : 23	1.9	6.2	12
0701_03	8 ppm	Week : 13	2.7	7.2	7
0702_03	8 ppm	Week : 13	2.8	7	9
0703_03	8 ppm	Week : 13	3.2	7.4	7
0704_03	8 ppm	Week : 13	2.9	7.2	11
0705_03	8 ppm	Week : 13	2.9	7.3	6
0706_03	8 ppm	Week : 13	3.2	7.4	8
0707_03	8 ppm	Week : 13	2.8	7.1	10
0708_03	8 ppm	Week : 13	3	7.2	7
0709_03	8 ppm	Week : 13	3	7.1	8
0710_03	8 ppm	Week : 13	3	7.4	6
0711_03	8 ppm	Day : 3	2	5.1	7
0711_03	8 ppm	Day : 23	1.9	6.2	9
0712_03	8 ppm	Day : 3	2	5.3	9
0712_03	8 ppm	Day : 23	1.8	6.4	10
0713_03	8 ppm	Day : 3	1.7	5.2	7
0713_03	8 ppm	Day : 23	1.7	6.3	10
0714_03	8 ppm	Day : 3	2.4	5.6	12
0714_03	8 ppm	Day : 23	1.7	6.2	9
0715_03	8 ppm	Day : 3	1.9	5.3	9
0715_03	8 ppm	Day : 23	2	6.3	12

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**FEMALE**


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Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0716_03	8 ppm	Day : 3	1.9	5.6	12
0716_03	8 ppm	Day : 23	2.1	6.4	10
0717_03	8 ppm	Day : 3	2	5.4	11
0717_03	8 ppm	Day : 23	1.9	6.4	14
0718_03	8 ppm	Day : 3	1.8	5.2	9
0718_03	8 ppm	Day : 23	2	6.4	11
0719_03	8 ppm	Day : 3	2.3	5.3	13
0719_03	8 ppm	Day : 23	1.8	6.4	13
0720_03	8 ppm	Day : 3	1.7	5.4	11
0720_03	8 ppm	Day : 23	1.7	6.2	9
0901_03	16 ppm	Week : 13	2.8	7.2	10
0902_03	16 ppm	Week : 13	2.9	7.3	10
0903_03	16 ppm	Week : 13	2.5	6.7	7
0904_03	16 ppm	Week : 13	2.8	6.9	8
0905_03	16 ppm	Week : 13	2.9	7.3	9
0906_03	16 ppm	Week : 13	2.8	7.2	7
0907_03	16 ppm	Week : 13	2.8	6.8	8
0908_03	16 ppm	Week : 13	3	7.2	12
0909_03	16 ppm	Week : 13	2.9	7.1	9
0910_03	16 ppm	Week : 13	2.9	7.1	9
0911_03	16 ppm	Day : 3	1.7	5	10
0911_03	16 ppm	Day : 23	1.8	6.3	11

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0912_03	16 ppm	Day : 3	1.7	5.1	9
0912_03	16 ppm	Day : 23	1.8	6	11
0913_03	16 ppm	Day : 3	1.9	5.3	10
0913_03	16 ppm	Day : 23	2.1	6.5	13
0914_03	16 ppm	Day : 3	1.8	5.5	11
0914_03	16 ppm	Day : 23	1.8	6.1	12
0915_03	16 ppm	Day : 3	1.9	5.6	10
0915_03	16 ppm	Day : 23	1.9	6.2	9
0916_03	16 ppm	Day : 3	2.1	5.6	8
0916_03	16 ppm	Day : 23	1.7	5.8	9
0917_03	16 ppm	Day : 3	1.9	5.1	9
0917_03	16 ppm	Day : 23	1.5	6	10
0918_03	16 ppm	Day : 3	1.3	4.6	9
0918_03	16 ppm	Day : 23	1.8	6.3	12
0919_03	16 ppm	Day : 3	2	5.4	7
0919_03	16 ppm	Day : 23	1.7	6	7
0920_03	16 ppm	Day : 3	1.5	5.2	7
0920_03	16 ppm	Day : 23	1.6	6.4	11
1101_03	32 ppm	Week : 13	2.6	6.7	8
1102_03	32 ppm	Week : 13	2.7	6.7	7
1103_03	32 ppm	Week : 13	2.5	6.9	9
1104_03	32 ppm	Week : 13	2.8	6.9	8

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
1105_03	32 ppm	Week : 13	2.9	7.5	9
1106_03	32 ppm	Week : 13	3.1	7.2	7
1107_03	32 ppm	Week : 13	2.7	6.9	7
1108_03	32 ppm	Week : 13	2.8	7.1	7
1109_03	32 ppm	Week : 13	3.1	7.5	8
1110_03	32 ppm	Week : 13	2.8	7.1	9
1111_03	32 ppm	Day : 3	2	4.9	8
1111_03	32 ppm	Day : 23	1.7	6.4	11
1112_03	32 ppm	Day : 3	1.8	5	7
1112_03	32 ppm	Day : 23	1.6	6	7
1113_03	32 ppm	Day : 3	1.4	4.9	6
1113_03	32 ppm	Day : 23	1.8	5.9	9
1114_03	32 ppm	Day : 3	2	5.5	8
1114_03	32 ppm	Day : 23	2	6.1	12
1115_03	32 ppm	Day : 3	1.6	5.1	6
1115_03	32 ppm	Day : 23	1.4	5.7	12
1116_03	32 ppm	Day : 3	2.2	5.5	9
1116_03	32 ppm	Day : 23	1.8	6.1	10
1117_03	32 ppm	Day : 3	2.2	5.5	6
1117_03	32 ppm	Day : 23	1.6	5.9	9
1118_03	32 ppm	Day : 3	1.7	5.2	9
1118_03	32 ppm	Day : 23	1.5	5.7	10

Experiment Number: 05201-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:59:45

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
1119_03	32 ppm	Day : 3	1.9	5.5	5
1119_03	32 ppm	Day : 23	1.4	6.4	9
1120_03	32 ppm	Day : 3	1.9	5.4	9
1120_03	32 ppm	Day : 23	1.6	6.2	12

\*\* END OF REPORT \*\*