

**Experiment Number:** 02200-03

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

**P42: Clinical Chemistry Data**

**Date Report Requested:** 10/24/2014

**Time Report Requested:** 14:26:53

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

**Lab:** NA

**C Number:** C02200B

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

Experiment Number: 02200-03

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 14:26:53

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	4.9	2.58	366	51
0002_03	0 ppm	Week : 13	5	2.63	384	53
0003_03	0 ppm	Week : 13	4.8	2.29	337	41
0004_03	0 ppm	Week : 13	5.4	2.84	323	60
0005_03	0 ppm	Week : 13	4.7	1.88	430	46
0006_03	0 ppm	Week : 13	3.9	1.77	348	47
0007_03	0 ppm	Week : 13	4.3	4.78	282	55
0008_03	0 ppm	Week : 13	5	2.78	310	41
0009_03	0 ppm	Week : 13	4.8	2.18	251	45
0010_03	0 ppm	Week : 13	5	2.63	252	47
0011_03	0 ppm	Day : 3	4.7	2.94	752	36
0011_03	0 ppm	Day : 23	4.7	2.76	463	33
0012_03	0 ppm	Day : 3	4.5	2.65	714	36
0012_03	0 ppm	Day : 23	4.5	2.25	471	38
0013_03	0 ppm	Day : 3	4.9	3.5	806	31
0013_03	0 ppm	Day : 23	5	2.94	520	42
0014_03	0 ppm	Day : 3	4.5	3	797	28
0014_03	0 ppm	Day : 23	4.8	2.4	501	35
0015_03	0 ppm	Day : 3	4.7	2.76	631	32
0015_03	0 ppm	Day : 23	4.5	2.25	430	39
0016_03	0 ppm	Day : 3	4.2	2.33	627	34
0016_03	0 ppm	Day : 23	4.8	2.53	430	36

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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
0017_03	0 ppm	Day : 3	4	2.11	586	30
0017_03	0 ppm	Day : 23	4.7	2.76	381	36
0018_03	0 ppm	Day : 3	4	2.22	748	32
0018_03	0 ppm	Day : 23	4.8	2.29	544	40
0019_03	0 ppm	Day : 3	4.5	2.65	571	32
0019_03	0 ppm	Day : 23	5.1	3.19	445	39
0020_03	0 ppm	Day : 3	4.2	2.63	602	30
0020_03	0 ppm	Day : 23	5	3.13	505	60
0201_03	125 ppm	Week : 13	5.3	2.79	385	49
0202_03	125 ppm	Week : 13	5.1	3	341	58
0203_03	125 ppm	Week : 13	5.1	3	359	39
0204_03	125 ppm	Week : 13	4.7	1.96	344	47
0205_03	125 ppm	Week : 13	4.8	2.4	350	50
0206_03	125 ppm	Week : 13	4	2.11	212	45
0207_03	125 ppm	Week : 13	4.8	2.67	262	48
0208_03	125 ppm	Week : 13	4.9	2.45	243	40
0209_03	125 ppm	Week : 13	4.8	2.82	209	42
0210_03	125 ppm	Week : 13	4.9	3.27	282	51
0211_03	125 ppm	Day : 3	4.7	2.76	749	29
0211_03	125 ppm	Day : 23	4.8	2.82	464	34
0212_03	125 ppm	Day : 3	4.7	3.13	814	34
0212_03	125 ppm	Day : 23	4.3	2.26	553	34

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:54

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	125 ppm	Day : 3	5.1	3.64	728	28
0213_03	125 ppm	Day : 23	4.3	1.87	584	38
0214_03	125 ppm	Day : 3	4.6	2.88	720	31
0214_03	125 ppm	Day : 23	4.3	1.87	509	39
0215_03	125 ppm	Day : 3	4.8	3.2	708	34
0215_03	125 ppm	Day : 23	4.9	2.88	546	40
0216_03	125 ppm	Day : 3	4.7	2.94	683	32
0216_03	125 ppm	Day : 23	4.7	3.36	428	32
0217_03	125 ppm	Day : 3	5.1	2.83	759	31
0217_03	125 ppm	Day : 23	4.8	3.2	531	35
0218_03	125 ppm	Day : 3	4.6	2.71	732	33
0218_03	125 ppm	Day : 23	5	3.13	574	36
0219_03	125 ppm	Day : 3	4.7	3.13	709	30
0219_03	125 ppm	Day : 23	4.6	2.42	595	36
0220_03	125 ppm	Day : 3	4.7	3.13	777	31
0220_03	125 ppm	Day : 23	4.5	2.25	462	36
0401_03	250 ppm	Week : 13	5.3	3.12	347	50
0402_03	250 ppm	Week : 13	5.2	2.6	383	62
0403_03	250 ppm	Week : 13	4.8	2.82	346	47
0404_03	250 ppm	Week : 13	4.9	2.33	292	67
0405_03	250 ppm	Week : 13	3.7	1.19	224	34
0406_03	250 ppm	Week : 13	4.3	1.95	330	60

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

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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
0407_03	250 ppm	Week : 13	4.8	3	277	41
0408_03	250 ppm	Week : 13	4.7	2.76	284	45
0409_03	250 ppm	Week : 13	5.1	2.68	265	58
0410_03	250 ppm	Week : 13	5	2.78	249	49
0411_03	250 ppm	Day : 3	4.8	3.2	762	30
0411_03	250 ppm	Day : 23	4.2	2.1	510	35
0412_03	250 ppm	Day : 3	4.7	2.61	761	30
0412_03	250 ppm	Day : 23	4.9	2.88	501	35
0413_03	250 ppm	Day : 3	5.1	3	758	32
0413_03	250 ppm	Day : 23	4.2	1.75	440	34
0414_03	250 ppm	Day : 3	4.8	2.82	715	28
0414_03	250 ppm	Day : 23	4.9	4.08	494	33
0415_03	250 ppm	Day : 3	4.8	3.2	731	34
0415_03	250 ppm	Day : 23	4.2	2.1	418	32
0416_03	250 ppm	Day : 3				31
0416_03	250 ppm	Day : 23	4.8	2.67	507	35
0417_03	250 ppm	Day : 3	4.8	3.2	717	35
0417_03	250 ppm	Day : 23	4.2	2.21	509	36
0418_03	250 ppm	Day : 3	4.8	3.43	676	28
0418_03	250 ppm	Day : 23	4.5	2.14	516	37
0419_03	250 ppm	Day : 3	4.6	3.54	688	28
0419_03	250 ppm	Day : 23	4.6	2.56	394	35

## MALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0420_03	250 ppm	Day : 3	4.7	3.92	703	30
0420_03	250 ppm	Day : 23	5.1	3.64	496	39
0601_03	500 ppm	Week : 13	5.2	3.06	327	39
0602_03	500 ppm	Week : 13	5.3	3.12	362	44
0603_03	500 ppm	Week : 13	4.9	2.72	311	53
0604_03	500 ppm	Week : 13	4.7	1.88	402	44
0605_03	500 ppm	Week : 13	4.6	1.84	321	44
0606_03	500 ppm	Week : 13	4.9	2.45	283	46
0607_03	500 ppm	Week : 13	4.2	1.75	281	46
0608_03	500 ppm	Week : 13	5	2.5	269	37
0609_03	500 ppm	Week : 13	4.9	2.58	289	41
0610_03	500 ppm	Week : 13	4.8	2.4	202	44
0611_03	500 ppm	Day : 3	4.4	2.93	604	27
0611_03	500 ppm	Day : 23	5.1	3.19	541	35
0612_03	500 ppm	Day : 3	4.7	3.36	684	30
0612_03	500 ppm	Day : 23	4.6	2.58	524	33
0613_03	500 ppm	Day : 3	4.7	3.13	624	28
0613_03	500 ppm	Day : 23	4.4	2	501	35
0614_03	500 ppm	Day : 3	4.7	3.62	736	28
0614_03	500 ppm	Day : 23	4.6	2.19	429	41
0615_03	500 ppm	Day : 3	4.9	4.08	636	29
0615_03	500 ppm	Day : 23	4.5	2.5	487	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
0616_03	500 ppm	Day : 3	4.7	3.92	640	33
0616_03	500 ppm	Day : 23	4.4	2.44	496	38
0617_03	500 ppm	Day : 3	4.8	3.43	741	31
0617_03	500 ppm	Day : 23	5.2	4.33	484	33
0618_03	500 ppm	Day : 3	5	3.85	744	32
0618_03	500 ppm	Day : 23	4.5	2.5	442	30
0619_03	500 ppm	Day : 3	5	4.55	751	32
0619_03	500 ppm	Day : 23	4.5	3	487	29
0620_03	500 ppm	Day : 3	4.7	3.13	617	29
0620_03	500 ppm	Day : 23	4.6	2.58	487	36
0801_03	1000 ppm	Week : 13	5.4	3.18	264	36
0802_03	1000 ppm	Week : 13	5.2	2.89	294	36
0803_03	1000 ppm	Week : 13	4.7	2.47	261	44
0804_03	1000 ppm	Week : 13	4.6	1.77	259	47
0805_03	1000 ppm	Week : 13	4.5	1.73	270	61
0806_03	1000 ppm	Week : 13	4.8	2.29	275	45
0807_03	1000 ppm	Week : 13	4.3	2.05	279	37
0808_03	1000 ppm	Week : 13	5	2.63	226	39
0809_03	1000 ppm	Week : 13	4.8	3	229	34
0810_03	1000 ppm	Week : 13	5	2.63	196	35
0811_03	1000 ppm	Day : 3	4.6	3.54	689	28
0811_03	1000 ppm	Day : 23	4.5	2.25	415	34

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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
0812_03	1000 ppm	Day : 3	4.7	2.94	660	30
0812_03	1000 ppm	Day : 23	4.5	2.144	527	38
0813_03	1000 ppm	Day : 3	5.3	3.79	622	30
0813_03	1000 ppm	Day : 23	4.4	2.1	430	37
0814_03	1000 ppm	Day : 23	4.5	2.05	532	38
0815_03	1000 ppm	Day : 3	4.9	3.5	609	29
0815_03	1000 ppm	Day : 23	4.9	3.27	484	31
0816_03	1000 ppm	Day : 3	4	2.22	573	33
0816_03	1000 ppm	Day : 23	4.8	2.18	436	38
0817_03	1000 ppm	Day : 3	4.5	2.25	680	34
0817_03	1000 ppm	Day : 23	4.4	2.32	408	35
0818_03	1000 ppm	Day : 3	4.2	2.33	687	34
0818_03	1000 ppm	Day : 23	4.3	1.95	522	37
0819_03	1000 ppm	Day : 3	4.4	2.59	627	35
0819_03	1000 ppm	Day : 23	5.1	2.22	377	32
0820_03	1000 ppm	Day : 3	4.2	2.21	627	32
0820_03	1000 ppm	Day : 23	4.6	2.71	453	31
1001_03	1500 ppm	Week : 13	5.1	2.55	284	37
1002_03	1500 ppm	Week : 13	5.3	3.31	332	41
1003_03	1500 ppm	Week : 13	5.4	2.84	299	44
1004_03	1500 ppm	Week : 13	5.2	3.06	264	37
1005_03	1500 ppm	Week : 13	4.8	2.18	316	43



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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
1006_03	1500 ppm	Week : 13	4.7	1.81	259	48
1007_03	1500 ppm	Week : 13	4.7	2.61	232	38
1008_03	1500 ppm	Week : 13	5.1	3.19	197	36
1009_03	1500 ppm	Week : 13	4.6	3.07	194	36
1010_03	1500 ppm	Week : 13	5.1	3	258	43
1011_03	1500 ppm	Day : 3	4.2	2.8	417	33
1011_03	1500 ppm	Day : 23	5.1	2.55	408	34
1012_03	1500 ppm	Day : 3	4.3	2.05	510	31
1012_03	1500 ppm	Day : 23	4.8	2.67	405	34
1013_03	1500 ppm	Day : 3	4.6	2.58	526	30
1013_03	1500 ppm	Day : 23	5.1	2.68	502	33
1014_03	1500 ppm	Day : 3	4.8	2.67	560	37
1014_03	1500 ppm	Day : 23	4.7	2.76	385	33
1015_03	1500 ppm	Day : 3	4.3	2.39	456	37
1015_03	1500 ppm	Day : 23	5.2	3.06	420	32
1016_03	1500 ppm	Day : 23	5.4	4.15	464	30
1017_03	1500 ppm	Day : 3	4.1	1.95	453	29
1017_03	1500 ppm	Day : 23	4.8	2.29	384	31
1018_03	1500 ppm	Day : 3	4.2	2.33	502	30
1018_03	1500 ppm	Day : 23	4.6	2.56	348	29
1019_03	1500 ppm	Day : 3	4.4	2.32	532	30
1019_03	1500 ppm	Day : 23	4.4	2.32	364	31

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

**P42: Clinical Chemistry Data**

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:54

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>1500 ppm</b>	<b>Day : 3</b>	4.5	2.05	479	39
<b>1020_03</b>	<b>1500 ppm</b>	<b>Day : 23</b>	4.7	2.61	366	34

## 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	25	21	85	0.9
0002_03	0 ppm	Week : 13	26	20	110	0.9
0003_03	0 ppm	Week : 13	30	20	158	1
0004_03	0 ppm	Week : 13	24	20	60	0.8
0005_03	0 ppm	Week : 13	28	22	119	0.8
0006_03	0 ppm	Week : 13	32	19	139	0.9
0007_03	0 ppm	Week : 13	33	17	148	0.9
0008_03	0 ppm	Week : 13	43	20	226	0.9
0009_03	0 ppm	Week : 13	31	19	93	0.9
0010_03	0 ppm	Week : 13	27	16	74	0.8
0011_03	0 ppm	Day : 3	26	13	478	0.8
0011_03	0 ppm	Day : 23	22	12	129	0.7
0012_03	0 ppm	Day : 3	30	15	272	0.8
0012_03	0 ppm	Day : 23	23	15	196	0.7
0013_03	0 ppm	Day : 3	25	13	383	0.8
0013_03	0 ppm	Day : 23	25	14	202	0.7
0014_03	0 ppm	Day : 3	24	13	305	0.8
0014_03	0 ppm	Day : 23	21	15	192	0.8
0015_03	0 ppm	Day : 3	24	15	310	0.7
0015_03	0 ppm	Day : 23	48	13	339	0.7
0016_03	0 ppm	Day : 3	22	15	310	0.6
0016_03	0 ppm	Day : 23	21	16	112	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	15	13	284	0.7
0017_03	0 ppm	Day : 23	17	14	198	0.8
0018_03	0 ppm	Day : 3	25	11	323	0.7
0018_03	0 ppm	Day : 23	39	16	129	0.7
0019_03	0 ppm	Day : 3	18	15	262	0.7
0019_03	0 ppm	Day : 23	23	15	219	0.8
0020_03	0 ppm	Day : 3	20	12	257	0.8
0020_03	0 ppm	Day : 23	21	16	143	0.7
0201_03	125 ppm	Week : 13	31	22	150	0.8
0202_03	125 ppm	Week : 13	25	23	231	0.8
0203_03	125 ppm	Week : 13	22	18	88	0.7
0204_03	125 ppm	Week : 13	29	18	124	0.9
0205_03	125 ppm	Week : 13	34	20	60	0.8
0206_03	125 ppm	Week : 13	30	17	98	1
0207_03	125 ppm	Week : 13	30	18	259	0.9
0208_03	125 ppm	Week : 13	31	21	71	0.9
0209_03	125 ppm	Week : 13	30	19	86	0.9
0210_03	125 ppm	Week : 13	34	18	141	0.9
0211_03	125 ppm	Day : 3	34	13	310	0.8
0211_03	125 ppm	Day : 23	21	15	153	0.8
0212_03	125 ppm	Day : 3	26	12	559	0.7
0212_03	125 ppm	Day : 23	19	12	214	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
0212_03	125 ppm	Day : 23	19	12	214	0.6
0213_03	125 ppm	Day : 3	29	14	482	0.8
0213_03	125 ppm	Day : 23	19	13	120	0.6
0214_03	125 ppm	Day : 3	30	15	263	0.8
0214_03	125 ppm	Day : 23	22	13	217	0.7
0215_03	125 ppm	Day : 3	25	13	390	0.7
0215_03	125 ppm	Day : 23	27	14	246	0.8
0216_03	125 ppm	Day : 3	22	15	507	0.8
0216_03	125 ppm	Day : 23	22	15	199	0.8
0217_03	125 ppm	Day : 3	25	14	278	0.8
0217_03	125 ppm	Day : 23	23	16	149	0.8
0218_03	125 ppm	Day : 3	23	12	356	0.8
0218_03	125 ppm	Day : 23	23	15	133	0.8
0219_03	125 ppm	Day : 3	19	12	401	0.8
0219_03	125 ppm	Day : 23	20	13	199	0.7
0220_03	125 ppm	Day : 3	22	14	360	0.8
0220_03	125 ppm	Day : 23	20	15	311	0.8
0401_03	250 ppm	Week : 13	24	21	117	0.9
0402_03	250 ppm	Week : 13	43	21	309	0.9
0403_03	250 ppm	Week : 13	27	20	107	0.8
0404_03	250 ppm	Week : 13	34	17	244	0.8
0405_03	250 ppm	Week : 13	19	17	89	0.9

## 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
0406_03	250 ppm	Week : 13	31	20	166	0.8
0407_03	250 ppm	Week : 13	33	21	110	1
0408_03	250 ppm	Week : 13	32	22	138	1
0409_03	250 ppm	Week : 13	40	21	118	0.9
0410_03	250 ppm	Week : 13	29	17	119	0.9
0411_03	250 ppm	Day : 3	27	16	305	0.8
0411_03	250 ppm	Day : 23	20	16	266	0.7
0412_03	250 ppm	Day : 3	27	13	292	0.9
0412_03	250 ppm	Day : 23	42	17	213	0.8
0413_03	250 ppm	Day : 3	31	19	223	0.9
0413_03	250 ppm	Day : 23	20	16	136	0.7
0414_03	250 ppm	Day : 3	30	17	300	0.9
0414_03	250 ppm	Day : 23	24	16	134	0.8
0415_03	250 ppm	Day : 3	34	16	567	0.9
0415_03	250 ppm	Day : 23	22	15	286	0.8
0416_03	250 ppm	Day : 3	21		324	
0416_03	250 ppm	Day : 23	25	16	258	0.8
0417_03	250 ppm	Day : 3	27	17	558	0.9
0417_03	250 ppm	Day : 23	36	14	209	0.7
0418_03	250 ppm	Day : 3	24	14	249	0.8
0418_03	250 ppm	Day : 23	29	17	160	0.9
0419_03	250 ppm	Day : 3	19	16	219	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
0419_03	250 ppm	Day : 3	19	16	219	0.8
0419_03	250 ppm	Day : 23	31	17	282	0.8
0420_03	250 ppm	Day : 3	18	16	267	0.8
0420_03	250 ppm	Day : 23	21	16	157	0.8
0601_03	500 ppm	Week : 13	29	20	156	0.8
0602_03	500 ppm	Week : 13	22	23	258	0.9
0603_03	500 ppm	Week : 13	37	23	100	0.8
0604_03	500 ppm	Week : 13	31	22	317	0.8
0605_03	500 ppm	Week : 13	33	17	121	0.8
0606_03	500 ppm	Week : 13	29	18	143	0.9
0607_03	500 ppm	Week : 13	31	16	65	0.7
0608_03	500 ppm	Week : 13	39	18	178	0.9
0609_03	500 ppm	Week : 13	35	17	108	0.8
0610_03	500 ppm	Week : 13	32	18	137	0.9
0611_03	500 ppm	Day : 3	24	17	364	1
0611_03	500 ppm	Day : 23	59	19	194	0.9
0612_03	500 ppm	Day : 3	32	15	470	0.9
0612_03	500 ppm	Day : 23	44	17	172	0.9
0613_03	500 ppm	Day : 3	24	17	405	0.9
0613_03	500 ppm	Day : 23	54	19	174	1
0614_03	500 ppm	Day : 3	32	16	309	0.9
0614_03	500 ppm	Day : 23	39	17	203	1

## 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
0615_03	500 ppm	Day : 3	25	15	412	1
0615_03	500 ppm	Day : 23	28	15	212	0.9
0616_03	500 ppm	Day : 3	26	16	466	0.9
0616_03	500 ppm	Day : 23	31	16	328	0.9
0617_03	500 ppm	Day : 3	30	16	383	0.9
0617_03	500 ppm	Day : 23	28	16	152	0.9
0618_03	500 ppm	Day : 3	24	18	353	1
0618_03	500 ppm	Day : 23	24	18	162	1
0619_03	500 ppm	Day : 3	26	15	369	1
0619_03	500 ppm	Day : 23	27	15	243	0.8
0620_03	500 ppm	Day : 3	26	20	494	1
0620_03	500 ppm	Day : 23	27	17	140	0.8
0801_03	1000 ppm	Week : 13	50	19	96	0.9
0802_03	1000 ppm	Week : 13	29	20	50	0.8
0803_03	1000 ppm	Week : 13	51	17	249	1
0804_03	1000 ppm	Week : 13	38	19	295	0.8
0805_03	1000 ppm	Week : 13	41	16	78	0.9
0806_03	1000 ppm	Week : 13	32	17	170	0.8
0807_03	1000 ppm	Week : 13	37	13	123	0.7
0808_03	1000 ppm	Week : 13	33	15	185	0.8
0809_03	1000 ppm	Week : 13	31	17	142	0.9
0810_03	1000 ppm	Week : 13	34	15	89	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
0810_03	1000 ppm	Week : 13	34	15	89	0.8
0811_03	1000 ppm	Day : 3	29	21	342	1.2
0811_03	1000 ppm	Day : 23	26	20	197	1.2
0812_03	1000 ppm	Day : 3	33	21	378	1.2
0812_03	1000 ppm	Day : 23	65	21	210	1.3
0813_03	1000 ppm	Day : 3		24	302	1.3
0813_03	1000 ppm	Day : 23	36	19	192	1.1
0814_03	1000 ppm	Day : 23	31	17	210	1
0815_03	1000 ppm	Day : 3	27	20	420	1.2
0815_03	1000 ppm	Day : 23	30	19	147	0.9
0816_03	1000 ppm	Day : 3	29	19	310	1.1
0816_03	1000 ppm	Day : 23	25	18	203	1.4
0817_03	1000 ppm	Day : 3	104	19	316	1.1
0817_03	1000 ppm	Day : 23	40	17	140	0.9
0818_03	1000 ppm	Day : 3	31	18	344	1
0818_03	1000 ppm	Day : 23	61	19	215	1.2
0819_03	1000 ppm	Day : 3	31	18	371	0.9
0819_03	1000 ppm	Day : 23	28	23	369	1.3
0820_03	1000 ppm	Day : 3	31	19	252	1
0820_03	1000 ppm	Day : 23	28	19	130	1
1001_03	1500 ppm	Week : 13	28	15	163	0.8
1002_03	1500 ppm	Week : 13	38	16	46	0.8

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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
1003_03	1500 ppm	Week : 13	47	18	136	0.9
1004_03	1500 ppm	Week : 13	51	20	74	0.9
1005_03	1500 ppm	Week : 13	58	18	182	0.8
1006_03	1500 ppm	Week : 13	49	15	147	0.9
1007_03	1500 ppm	Week : 13	45	14	153	0.8
1008_03	1500 ppm	Week : 13	37	15	206	0.9
1009_03	1500 ppm	Week : 13	41	18	171	0.9
1010_03	1500 ppm	Week : 13	47	17	73	0.9
1011_03	1500 ppm	Day : 3	30	18	300	1
1011_03	1500 ppm	Day : 23	60	19	251	1.2
1012_03	1500 ppm	Day : 3	30	21	320	1.1
1012_03	1500 ppm	Day : 23	39	20	111	1.3
1013_03	1500 ppm	Day : 3	28	20	270	1.1
1013_03	1500 ppm	Day : 23	39	22	140	1.4
1014_03	1500 ppm	Day : 3	69	20	328	1.4
1014_03	1500 ppm	Day : 23	29	18	159	1.3
1015_03	1500 ppm	Day : 3	31	17	299	1.1
1015_03	1500 ppm	Day : 23	62	21	91	1.4
1016_03	1500 ppm	Day : 23	55	22	157	1.2
1017_03	1500 ppm	Day : 3	39	21	447	1.1
1017_03	1500 ppm	Day : 23	55	23	197	1.2
1018_03	1500 ppm	Day : 3	29	21	303	1

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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	1500 ppm	Day : 3	29	21	303	1
1018_03	1500 ppm	Day : 23	101	20	195	1.5
1019_03	1500 ppm	Day : 3	30	20	316	1.1
1019_03	1500 ppm	Day : 23	31	20	172	1.3
1020_03	1500 ppm	Day : 3	56	21	632	1.2
1020_03	1500 ppm	Day : 23	44	22	112	1.2

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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	1.9	6.8	20
0002_03	0 ppm	Week : 13	1.9	6.9	22
0003_03	0 ppm	Week : 13	2.1	6.9	22
0004_03	0 ppm	Week : 13	1.9	7.3	22
0005_03	0 ppm	Week : 13	2.5	7.2	20
0006_03	0 ppm	Week : 13	2.2	6.1	23
0007_03	0 ppm	Week : 13	0.9	5.2	28
0008_03	0 ppm	Week : 13	1.8	6.8	14
0009_03	0 ppm	Week : 13	2.2	7	19
0010_03	0 ppm	Week : 13	1.9	6.9	21
0011_03	0 ppm	Day : 3	1.6	6.3	11
0011_03	0 ppm	Day : 23	1.7	6.4	11
0012_03	0 ppm	Day : 3	1.7	6.2	15
0012_03	0 ppm	Day : 23	2	6.5	15
0013_03	0 ppm	Day : 3	1.4	6.3	15
0013_03	0 ppm	Day : 23	1.7	6.7	13
0014_03	0 ppm	Day : 3	1.5	6	14
0014_03	0 ppm	Day : 23	2	6.8	14
0015_03	0 ppm	Day : 3	1.7	6.4	15
0015_03	0 ppm	Day : 23	2	6.5	15
0016_03	0 ppm	Day : 3	1.8	6	10
0016_03	0 ppm	Day : 23	1.9	6.7	13

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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
0017_03	0 ppm	Day : 3	1.9	5.9	12
0017_03	0 ppm	Day : 23	1.7	6.4	15
0018_03	0 ppm	Day : 3	1.8	5.8	12
0018_03	0 ppm	Day : 23	2.1	6.9	14
0019_03	0 ppm	Day : 3	1.7	6.2	12
0019_03	0 ppm	Day : 23	1.6	6.7	16
0020_03	0 ppm	Day : 3	1.6	5.8	11
0020_03	0 ppm	Day : 23	1.6	6.6	17
0201_03	125 ppm	Week : 13	1.9	7.2	19
0202_03	125 ppm	Week : 13	1.7	6.8	23
0203_03	125 ppm	Week : 13	1.7	6.8	17
0204_03	125 ppm	Week : 13	2.4	7.1	19
0205_03	125 ppm	Week : 13	2	6.8	18
0206_03	125 ppm	Week : 13	1.9	5.9	27
0207_03	125 ppm	Week : 13	1.8	6.6	18
0208_03	125 ppm	Week : 13	2	6.9	19
0209_03	125 ppm	Week : 13	1.7	6.5	18
0210_03	125 ppm	Week : 13	1.5	6.4	23
0211_03	125 ppm	Day : 3	1.7	6.4	13
0211_03	125 ppm	Day : 23	1.7	6.5	12
0212_03	125 ppm	Day : 3	1.5	6.2	8
0212_03	125 ppm	Day : 23	1.9	6.2	15

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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	125 ppm	Day : 3	1.4	6.5	11
0213_03	125 ppm	Day : 23	2.3	6.6	13
0214_03	125 ppm	Day : 3	1.6	6.2	14
0214_03	125 ppm	Day : 23	2.3	6.6	17
0215_03	125 ppm	Day : 3	1.5	6.3	11
0215_03	125 ppm	Day : 23	1.7	6.6	13
0216_03	125 ppm	Day : 3	1.6	6.3	12
0216_03	125 ppm	Day : 23	1.4	6.1	14
0217_03	125 ppm	Day : 3	1.8	6.3	13
0217_03	125 ppm	Day : 23	1.5	6.3	12
0218_03	125 ppm	Day : 3	1.7	6.9	11
0218_03	125 ppm	Day : 23	1.6	6.6	14
0219_03	125 ppm	Day : 3	1.5	6.3	12
0219_03	125 ppm	Day : 23	1.9	6.5	14
0220_03	125 ppm	Day : 3	1.5	6.2	14
0220_03	125 ppm	Day : 23	2	6.5	13
0401_03	250 ppm	Week : 13	1.7	7	21
0402_03	250 ppm	Week : 13	2	7.2	22
0403_03	250 ppm	Week : 13	1.7	6.5	17
0404_03	250 ppm	Week : 13	2.1	7	28
0405_03	250 ppm	Week : 13	3.1	6.8	17
0406_03	250 ppm	Week : 13	2.2	6.5	22

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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
0407_03	250 ppm	Week : 13	1.6	6.4	21
0408_03	250 ppm	Week : 13	1.7	6.4	20
0409_03	250 ppm	Week : 13	1.9	7	22
0410_03	250 ppm	Week : 13	1.8	6.8	20
0411_03	250 ppm	Day : 3	1.5	6.3	9
0411_03	250 ppm	Day : 23	2	6.2	13
0412_03	250 ppm	Day : 3	1.8	6.5	12
0412_03	250 ppm	Day : 23	1.7	6.6	12
0413_03	250 ppm	Day : 3	1.7	6.8	14
0413_03	250 ppm	Day : 23	2.4	6.6	14
0414_03	250 ppm	Day : 3	1.7	6.5	14
0414_03	250 ppm	Day : 23	1.2	6.1	11
0415_03	250 ppm	Day : 3	1.5	6.3	14
0415_03	250 ppm	Day : 23	2	6.2	13
0416_03	250 ppm	Day : 3			13
0416_03	250 ppm	Day : 23	1.8	6.6	16
0417_03	250 ppm	Day : 3	1.5	6.3	15
0417_03	250 ppm	Day : 23	1.9	6.1	15
0418_03	250 ppm	Day : 3	1.4	6.2	15
0418_03	250 ppm	Day : 23	2.1	6.6	15
0419_03	250 ppm	Day : 3	1.3	5.9	13
0419_03	250 ppm	Day : 23	1.8	6.4	13

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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
0420_03	250 ppm	Day : 3	1.2	5.9	12
0420_03	250 ppm	Day : 23	1.4	6.5	14
0601_03	500 ppm	Week : 13	1.7	6.9	17
0602_03	500 ppm	Week : 13	1.7	7	12
0603_03	500 ppm	Week : 13	1.8	6.7	24
0604_03	500 ppm	Week : 13	2.5	7.2	12
0605_03	500 ppm	Week : 13	2.5	7.1	18
0606_03	500 ppm	Week : 13	2	6.9	20
0607_03	500 ppm	Week : 13	2.4	6.6	19
0608_03	500 ppm	Week : 13	2	7	22
0609_03	500 ppm	Week : 13	1.9	6.8	18
0610_03	500 ppm	Week : 13	2	6.8	18
0611_03	500 ppm	Day : 3	1.5	5.9	12
0611_03	500 ppm	Day : 23	1.6	6.7	11
0612_03	500 ppm	Day : 3	1.4	6.1	8
0612_03	500 ppm	Day : 23	1.8	6.4	14
0613_03	500 ppm	Day : 3	1.5	6.2	8
0613_03	500 ppm	Day : 23	2.2	6.6	16
0614_03	500 ppm	Day : 3	1.3	6	11
0614_03	500 ppm	Day : 23	2.1	6.7	20
0615_03	500 ppm	Day : 3	1.2	6.1	9
0615_03	500 ppm	Day : 23	1.8	6.3	13



Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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
0616_03	500 ppm	Day : 3	1.2	5.9	8
0616_03	500 ppm	Day : 23	1.8	6.2	12
0617_03	500 ppm	Day : 3	1.4	6.2	9
0617_03	500 ppm	Day : 23	1.2	6.4	13
0618_03	500 ppm	Day : 3	1.3	6.3	8
0618_03	500 ppm	Day : 23	1.8	6.3	15
0619_03	500 ppm	Day : 3	1.1	6.1	9
0619_03	500 ppm	Day : 23	1.5	6	12
0620_03	500 ppm	Day : 3	1.5	6.2	8
0620_03	500 ppm	Day : 23	1.8	6.4	12
0801_03	1000 ppm	Week : 13	1.7	7.1	19
0802_03	1000 ppm	Week : 13	1.8	7	14
0803_03	1000 ppm	Week : 13	1.9	6.6	22
0804_03	1000 ppm	Week : 13	2.6	7.2	15
0805_03	1000 ppm	Week : 13	2.6	7.1	24
0806_03	1000 ppm	Week : 13	2.1	6.9	18
0807_03	1000 ppm	Week : 13	2.1	6.4	17
0808_03	1000 ppm	Week : 13	1.9	6.9	16
0809_03	1000 ppm	Week : 13	1.6	6.4	16
0810_03	1000 ppm	Week : 13	1.9	6.9	12
0811_03	1000 ppm	Day : 3	1.3	5.9	11
0811_03	1000 ppm	Day : 23	2	6.5	17

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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
0812_03	1000 ppm	Day : 3	1.6	6.3	10
0812_03	1000 ppm	Day : 23	2.1	6.6	18
0813_03	1000 ppm	Day : 3	1.4	6.7	15
0813_03	1000 ppm	Day : 23	2.1	6.5	15
0814_03	1000 ppm	Day : 23	2.2	6.7	14
0815_03	1000 ppm	Day : 3	1.4	6.3	11
0815_03	1000 ppm	Day : 23	1.5	6.4	13
0816_03	1000 ppm	Day : 3	1.8	5.8	13
0816_03	1000 ppm	Day : 23	2.2	7	20
0817_03	1000 ppm	Day : 3	2	6.5	13
0817_03	1000 ppm	Day : 23	1.9	6.3	19
0818_03	1000 ppm	Day : 3	1.8	6	13
0818_03	1000 ppm	Day : 23	2.2	6.5	16
0819_03	1000 ppm	Day : 3	1.7	6.1	9
0819_03	1000 ppm	Day : 23	2.3	7.4	19
0820_03	1000 ppm	Day : 3	1.9	6.1	15
0820_03	1000 ppm	Day : 23	1.7	6.3	14
1001_03	1500 ppm	Week : 13	2	7.1	16
1002_03	1500 ppm	Week : 13	1.6	6.9	13
1003_03	1500 ppm	Week : 13	1.9	7.3	20
1004_03	1500 ppm	Week : 13	1.7	6.9	16
1005_03	1500 ppm	Week : 13	2.2	7	14

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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
1006_03	1500 ppm	Week : 13	2.6	7.3	21
1007_03	1500 ppm	Week : 13	1.8	6.5	16
1008_03	1500 ppm	Week : 13	1.6	6.7	15
1009_03	1500 ppm	Week : 13	1.5	6.1	18
1010_03	1500 ppm	Week : 13	1.7	6.8	14
1011_03	1500 ppm	Day : 3	1.5	5.7	8
1011_03	1500 ppm	Day : 23	2	7.1	15
1012_03	1500 ppm	Day : 3	2.1	6.4	10
1012_03	1500 ppm	Day : 23	1.8	6.6	12
1013_03	1500 ppm	Day : 3	1.8	6.4	17
1013_03	1500 ppm	Day : 23	1.9	7	15
1014_03	1500 ppm	Day : 3	1.8	6.6	14
1014_03	1500 ppm	Day : 23	1.7	6.4	14
1015_03	1500 ppm	Day : 3	1.8	6.1	11
1015_03	1500 ppm	Day : 23	1.7	6.9	13
1016_03	1500 ppm	Day : 23	1.3	6.7	11
1017_03	1500 ppm	Day : 3	2.1	6.2	7
1017_03	1500 ppm	Day : 23	2.1	6.9	17
1018_03	1500 ppm	Day : 3	1.8	6	9
1018_03	1500 ppm	Day : 23	1.8	6.4	16
1019_03	1500 ppm	Day : 3	1.9	6.3	11
1019_03	1500 ppm	Day : 23	1.9	6.3	14

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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	1500 ppm	Day : 3	2.2	6.7	14
1020_03	1500 ppm	Day : 23	1.8	6.5	15

Experiment Number: 02200-03

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 14:26:55

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	5.7	3	377	37
0102_03	0 ppm	Week : 13	6	3.75	422	45
0103_03	0 ppm	Week : 13	6	3.16	347	37
0104_03	0 ppm	Week : 13	5.7	3.17	322	53
0105_03	0 ppm	Week : 13	4.9	2.13	390	38
0106_03	0 ppm	Week : 13	5.3	2.41	353	44
0107_03	0 ppm	Week : 13	5.1	2.83	325	35
0108_03	0 ppm	Week : 13	5.2	2.74	363	36
0109_03	0 ppm	Week : 13	5	2.63	257	36
0110_03	0 ppm	Week : 13	4.9	2.33	343	41
0111_03	0 ppm	Day : 3	5	4.17	633	34
0111_03	0 ppm	Day : 23	4.8	2.67	360	30
0112_03	0 ppm	Day : 3	4.7	4.27	632	29
0112_03	0 ppm	Day : 23	4.5	2.81	370	30
0113_03	0 ppm	Day : 3	4.5	2.81	565	27
0113_03	0 ppm	Day : 23	4.2	2.1	332	29
0114_03	0 ppm	Day : 3	4.9	4.9	537	39
0114_03	0 ppm	Day : 23	4.8	2.82	342	28
0115_03	0 ppm	Day : 3	4.6	4.18	580	29
0115_03	0 ppm	Day : 23	4.8	3.43	338	29
0116_03	0 ppm	Day : 3	3.9	1.95	554	27
0116_03	0 ppm	Day : 23	4	2.11	341	27

## 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	4	2.22	506	27
0117_03	0 ppm	Day : 23	4.5	3.46	314	30
0118_03	0 ppm	Day : 3	4.2	2.1	456	29
0118_03	0 ppm	Day : 23	4.7	2.76	321	33
0119_03	0 ppm	Day : 3	4.5	2.65	525	32
0119_03	0 ppm	Day : 23	4.6	2.56	364	37
0120_03	0 ppm	Day : 3	4.1	2.16	497	27
0120_03	0 ppm	Day : 23	4.8	3.2	356	35
0301_03	125 ppm	Week : 13	5.7	3.35	352	35
0302_03	125 ppm	Week : 13	5.9	3.47	341	38
0303_03	125 ppm	Week : 13	5.3	2.52	343	37
0304_03	125 ppm	Week : 13	5.1	2.43	340	32
0305_03	125 ppm	Week : 13	5.2	2.6	349	34
0306_03	125 ppm	Week : 13	5.4	2.7	270	66
0307_03	125 ppm	Week : 13	4.8	2.4	328	38
0308_03	125 ppm	Week : 13	5	2.5	237	37
0309_03	125 ppm	Week : 13	4.6	1.92	289	39
0310_03	125 ppm	Week : 13	4.9	2.45	312	36
0311_03	125 ppm	Day : 3	4.9	6.13	525	24
0311_03	125 ppm	Day : 23	4.8	3.2	354	30
0312_03	125 ppm	Day : 3	4.6	3.83	612	27
0312_03	125 ppm	Day : 23	4.9	2.88	422	34

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:55

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	125 ppm	Day : 3	4.7	3.36	559	31
0313_03	125 ppm	Day : 23	4.8	2.4	323	36
0314_03	125 ppm	Day : 3	4.2	2.8	590	28
0314_03	125 ppm	Day : 23	4.6	2.19	393	31
0315_03	125 ppm	Day : 3	4.7	3.92	599	28
0315_03	125 ppm	Day : 23	4.3	3.31	409	31
0316_03	125 ppm	Day : 3	5.1	4.64	516	24
0316_03	125 ppm	Day : 23	4.8	2.82	374	33
0317_03	125 ppm	Day : 3	4.5	4.09	533	27
0317_03	125 ppm	Day : 23	4.3	2.26	391	37
0318_03	125 ppm	Day : 3	4.7	3.13	632	28
0318_03	125 ppm	Day : 23	4.5	2.5	361	32
0319_03	125 ppm	Day : 3	4.5	3.75	515	31
0319_03	125 ppm	Day : 23	4.5	2.5	358	26
0320_03	125 ppm	Day : 3	4.3	2.87	498	27
0320_03	125 ppm	Day : 23	4.2	2.47	386	36
0501_03	250 ppm	Week : 13	5.4	3.6	420	41
0502_03	250 ppm	Week : 13	5.6	2.95	313	40
0503_03	250 ppm	Week : 13	5.6	3.5	319	41
0504_03	250 ppm	Week : 13	5.3	2.65	312	34
0505_03	250 ppm	Week : 13	4.9	2.45	307	39
0506_03	250 ppm	Week : 13	5.1	3.4	324	42

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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
0507_03	250 ppm	Week : 13	4.9	2.88	287	37
0508_03	250 ppm	Week : 13	5.1	2.83	294	36
0509_03	250 ppm	Week : 13	4.7	2.14	311	38
0510_03	250 ppm	Week : 13	4.9	2.45	289	45
0511_03	250 ppm	Day : 3	4.8	3.69	527	33
0511_03	250 ppm	Day : 23	4.7	3.62	367	32
0512_03	250 ppm	Day : 3	4.7	3.92	654	29
0512_03	250 ppm	Day : 23	4.2	1.75	368	46
0513_03	250 ppm	Day : 3	5.1	4.25	562	30
0513_03	250 ppm	Day : 23	4.5	2.65	358	32
0514_03	250 ppm	Day : 3	4.7	4.7	508	27
0514_03	250 ppm	Day : 23	4.1	2.28	443	39
0515_03	250 ppm	Day : 3	4.3	3.31	540	27
0515_03	250 ppm	Day : 23	4.8	2.67	426	40
0516_03	250 ppm	Day : 3	4.3	3.58	589	27
0516_03	250 ppm	Day : 23	4.3	2.53	413	35
0517_03	250 ppm	Day : 3	4.6	4.6	482	32
0517_03	250 ppm	Day : 23	4.4	3.14	387	40
0518_03	250 ppm	Day : 3	4.3	3.07	647	25
0518_03	250 ppm	Day : 23	4.7	3.13	403	29
0519_03	250 ppm	Day : 3	4.5	3.46	711	28
0519_03	250 ppm	Day : 23	4.3	3.07	532	33



## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0520_03	250 ppm	Day : 3	4.4	4	550	25
0520_03	250 ppm	Day : 23	4.5	3	311	32
0701_03	500 ppm	Week : 13	5.9	3.69	346	43
0702_03	500 ppm	Week : 13	5.5	3.24	355	39
0703_03	500 ppm	Week : 13	5.6	3.29	318	41
0704_03	500 ppm	Week : 13	5.4	3.18	364	41
0705_03	500 ppm	Week : 13	5	2.27	340	33
0706_03	500 ppm	Week : 13	4.9	2.23	300	34
0707_03	500 ppm	Week : 13	4.9	2.58	315	35
0708_03	500 ppm	Week : 13	4.9	2.33	341	34
0709_03	500 ppm	Week : 13	4.9	2.58	354	36
0710_03	500 ppm	Week : 13	4.7	2.35	318	39
0711_03	500 ppm	Day : 3	4.4	2.75	596	34
0711_03	500 ppm	Day : 23	4	2.22	320	33
0712_03	500 ppm	Day : 3	4.6	3.83	725	26
0712_03	500 ppm	Day : 23	4.9	3.5	440	32
0713_03	500 ppm	Day : 3	4.7	3.92	566	27
0713_03	500 ppm	Day : 23	4.3	3.07	403	36
0714_03	500 ppm	Day : 3	4.6	3.54	547	27
0714_03	500 ppm	Day : 23	4.5	2.81	378	32
0715_03	500 ppm	Day : 3	4.8	4	631	30
0715_03	500 ppm	Day : 23	4.3	2.39	398	32

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0716_03	500 ppm	Day : 3	4.5	4.5	514	27
0716_03	500 ppm	Day : 23	4.7	2.76	429	42
0717_03	500 ppm	Day : 3	4.4	3.38	619	25
0717_03	500 ppm	Day : 23	4.9	3.06	386	29
0718_03	500 ppm	Day : 3	4.5	3.75	586	23
0718_03	500 ppm	Day : 23	4.4	2.44	511	34
0719_03	500 ppm	Day : 3	4.8	3.2	586	30
0719_03	500 ppm	Day : 23	4.4	3.38	426	35
0720_03	500 ppm	Day : 3	4.4	2.75	556	26
0720_03	500 ppm	Day : 23	4.6	2.71	420	34
0901_03	1000 ppm	Week : 13	5.5	3.24	371	33
0902_03	1000 ppm	Week : 13	5.6	3.29	320	35
0903_03	1000 ppm	Week : 13	5.7	3.35	327	42
0904_03	1000 ppm	Week : 13	4.7	1.96	309	38
0905_03	1000 ppm	Week : 13	4.8	2.29	391	39
0906_03	1000 ppm	Week : 13	5.1	2.55	396	33
0907_03	1000 ppm	Week : 13	4.9	2.45	348	33
0908_03	1000 ppm	Week : 13	4.5	1.96	304	34
0909_03	1000 ppm	Week : 13	5	2.38	285	36
0910_03	1000 ppm	Week : 13	5	2.78	289	37
0911_03	1000 ppm	Day : 3	4.7	4.27	556	23
0911_03	1000 ppm	Day : 23	5.1	3.19	448	32

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:56

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
0912_03	1000 ppm	Day : 3	4.7	4.27	491	26
0912_03	1000 ppm	Day : 23	3.9	2.17	375	22
0913_03	1000 ppm	Day : 3	4.9	4.45	590	29
0913_03	1000 ppm	Day : 23	4	1.82	402	27
0914_03	1000 ppm	Day : 3	4.3	2.87	504	26
0914_03	1000 ppm	Day : 23	4.3	2.53	379	34
0915_03	1000 ppm	Day : 3	4.5	3	521	29
0915_03	1000 ppm	Day : 23	4.9	2.72	408	40
0916_03	1000 ppm	Day : 3	4	1.82	481	30
0916_03	1000 ppm	Day : 23	4.4	2.59	432	35
0917_03	1000 ppm	Day : 3	4	1.82	452	30
0917_03	1000 ppm	Day : 23	5	2.94	308	36
0918_03	1000 ppm	Day : 3	4.2	2.33	497	24
0918_03	1000 ppm	Day : 23	4.3	2.69	353	30
0919_03	1000 ppm	Day : 3	4.2	2.63	475	25
0919_03	1000 ppm	Day : 23	4.7	3.36	389	29
0920_03	1000 ppm	Day : 3	4.2	2.33	429	30
0920_03	1000 ppm	Day : 23	4.6	2.88	389	33
1101_03	1500 ppm	Week : 13	5.7	3	310	37
1102_03	1500 ppm	Week : 13	5.3	3.79	300	39
1103_03	1500 ppm	Week : 13	5.8	3.41	297	31
1104_03	1500 ppm	Week : 13	5.3	2.3	306	34

Experiment Number: 02200-03

P42: Clinical Chemistry Data

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Species/Strain: Rat/Fischer 344

Time Report Requested: 14:26:56

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	1500 ppm	Week : 13	5.4	2.84	304	44
1106_03	1500 ppm	Week : 13	4.8	2.4	317	39
1107_03	1500 ppm	Week : 13	5.3	3.12	329	35
1108_03	1500 ppm	Week : 13	4.9	2.58	233	43
1109_03	1500 ppm	Week : 13	5	2.5	254	34
1110_03	1500 ppm	Week : 13	5.1	2.43	335	37
1111_03	1500 ppm	Day : 3	4.4	2.75	406	26
1111_03	1500 ppm	Day : 23	4.8	2.53	363	34
1112_03	1500 ppm	Day : 3	5	2.63	422	30
1112_03	1500 ppm	Day : 23	4.6	2.88	317	28
1113_03	1500 ppm	Day : 3	4.2	1.91	373	31
1113_03	1500 ppm	Day : 23	5.2	3.71	360	34
1114_03	1500 ppm	Day : 3	4.4	2.1	440	26
1114_03	1500 ppm	Day : 23	5.2	3.47	348	36
1115_03	1500 ppm	Day : 3	4.3	2.39	408	28
1115_03	1500 ppm	Day : 23	5	3.13	282	33
1116_03	1500 ppm	Day : 3	4.6	2.88	486	32
1116_03	1500 ppm	Day : 23	4.4	2.59	333	31
1117_03	1500 ppm	Day : 3	4	1.67	384	28
1117_03	1500 ppm	Day : 23	4.6	2.71	332	34
1118_03	1500 ppm	Day : 3	4	2	381	25
1118_03	1500 ppm	Day : 23	5.2	3.71	382	37

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:56

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	1500 ppm	Day : 3	4.1	1.95	426	27
1119_03	1500 ppm	Day : 23	4.9	2.88	394	35
1120_03	1500 ppm	Day : 3	4.3	2.39	334	40
1120_03	1500 ppm	Day : 23	5	2.78	458	37

## 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	26	24	121	0.9
0102_03	0 ppm	Week : 13	21	22	89	0.8
0103_03	0 ppm	Week : 13	34	23	82	0.9
0104_03	0 ppm	Week : 13	40	21	93	0.8
0105_03	0 ppm	Week : 13	63	24	99	0.9
0106_03	0 ppm	Week : 13	28	23	80	0.9
0107_03	0 ppm	Week : 13	27	22	95	0.8
0108_03	0 ppm	Week : 13	27	22	142	0.9
0109_03	0 ppm	Week : 13	32	18	84	0.8
0110_03	0 ppm	Week : 13	16	22	75	0.9
0111_03	0 ppm	Day : 3	13	16	146	0.7
0111_03	0 ppm	Day : 23	13	18	160	0.8
0112_03	0 ppm	Day : 3	17	18	166	0.7
0112_03	0 ppm	Day : 23	17	19	114	0.7
0113_03	0 ppm	Day : 3	17	16	155	0.7
0113_03	0 ppm	Day : 23	26	15	307	0.8
0114_03	0 ppm	Day : 3	16	19	251	0.7
0114_03	0 ppm	Day : 23	16	16	170	0.8
0115_03	0 ppm	Day : 3	18	18	255	0.7
0115_03	0 ppm	Day : 23	17	16	312	0.8
0116_03	0 ppm	Day : 3	16	14	125	0.6
0116_03	0 ppm	Day : 23	13	13	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
0117_03	0 ppm	Day : 3	14	15	160	0.6
0117_03	0 ppm	Day : 23	13	13	94	0.7
0118_03	0 ppm	Day : 3	15	15	212	0.7
0118_03	0 ppm	Day : 23	14	18	304	0.8
0119_03	0 ppm	Day : 3	16	18	123	0.7
0119_03	0 ppm	Day : 23	27	16	287	0.7
0120_03	0 ppm	Day : 3	16	17	147	0.6
0120_03	0 ppm	Day : 23	21	16	259	0.7
0301_03	125 ppm	Week : 13	43	22	53	0.8
0302_03	125 ppm	Week : 13	74	25	109	0.9
0303_03	125 ppm	Week : 13	53	24	108	0.8
0304_03	125 ppm	Week : 13	32	24	168	1
0305_03	125 ppm	Week : 13	46	26	115	0.9
0306_03	125 ppm	Week : 13	45	19	142	0.9
0307_03	125 ppm	Week : 13	27	20	205	0.8
0308_03	125 ppm	Week : 13	21	18	130	0.9
0309_03	125 ppm	Week : 13	42	21	171	0.9
0310_03	125 ppm	Week : 13	21	17	54	0.8
0311_03	125 ppm	Day : 3	29	16	302	0.7
0311_03	125 ppm	Day : 23	17	15	307	0.7
0312_03	125 ppm	Day : 3	18	18	506	0.8
0312_03	125 ppm	Day : 23	13	19	154	0.8

## 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	125 ppm	Day : 23	13	19	154	0.8
0313_03	125 ppm	Day : 3	14	14	166	0.7
0313_03	125 ppm	Day : 23	19	21	392	0.8
0314_03	125 ppm	Day : 3	12	17	184	0.7
0314_03	125 ppm	Day : 23	16	22	289	0.7
0315_03	125 ppm	Day : 3	17	15	198	0.7
0315_03	125 ppm	Day : 23	17	14	140	0.6
0316_03	125 ppm	Day : 3	19	15	152	0.8
0316_03	125 ppm	Day : 23	21	22	205	0.7
0317_03	125 ppm	Day : 3	11	15	278	0.7
0317_03	125 ppm	Day : 23	18	23	165	0.7
0318_03	125 ppm	Day : 3	12	16	199	0.7
0318_03	125 ppm	Day : 23	15	14	223	0.8
0319_03	125 ppm	Day : 3	12	16	195	0.7
0319_03	125 ppm	Day : 23	16	21	292	0.6
0320_03	125 ppm	Day : 3	27	17	200	0.7
0320_03	125 ppm	Day : 23	19	20	466	0.7
0501_03	250 ppm	Week : 13	49	23	160	0.8
0502_03	250 ppm	Week : 13	37	22	146	0.8
0503_03	250 ppm	Week : 13	46	24	56	0.8
0504_03	250 ppm	Week : 13	30	22	122	0.8
0505_03	250 ppm	Week : 13	31	22	120	0.8



## 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	250 ppm	Week : 13	42	23	140	0.9
0507_03	250 ppm	Week : 13	41	21	233	0.8
0508_03	250 ppm	Week : 13	20	17	197	0.9
0509_03	250 ppm	Week : 13	23	19	114	0.8
0510_03	250 ppm	Week : 13	21	20	145	0.8
0511_03	250 ppm	Day : 3	40	16	321	0.9
0511_03	250 ppm	Day : 23	17	18	191	0.7
0512_03	250 ppm	Day : 3	17	18	312	0.7
0512_03	250 ppm	Day : 23	43	19	157	0.8
0513_03	250 ppm	Day : 3	20	19	371	0.9
0513_03	250 ppm	Day : 23	16	15	156	0.8
0514_03	250 ppm	Day : 3	16	19	526	0.8
0514_03	250 ppm	Day : 23	41	21	269	0.8
0515_03	250 ppm	Day : 3	11	16	352	0.8
0515_03	250 ppm	Day : 23	13	19	175	0.8
0516_03	250 ppm	Day : 3	13	14	193	0.7
0516_03	250 ppm	Day : 23	25	17	136	0.7
0517_03	250 ppm	Day : 3	18	15	240	0.7
0517_03	250 ppm	Day : 23	36	17	145	0.7
0518_03	250 ppm	Day : 3	14	16	194	0.7
0518_03	250 ppm	Day : 23	15	17	174	0.7
0519_03	250 ppm	Day : 3	16	14	194	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	250 ppm	Day : 3	16	14	194	0.6
0519_03	250 ppm	Day : 23	22	15	240	0.7
0520_03	250 ppm	Day : 3	18	14	140	0.7
0520_03	250 ppm	Day : 23	14	21	261	0.8
0701_03	500 ppm	Week : 13	21	23	99	0.8
0702_03	500 ppm	Week : 13	71	22	65	0.8
0703_03	500 ppm	Week : 13	81	20	78	0.8
0704_03	500 ppm	Week : 13	22	23	156	0.8
0705_03	500 ppm	Week : 13	22	19	96	0.9
0706_03	500 ppm	Week : 13	19	19	58	0.9
0707_03	500 ppm	Week : 13	46	20	51	0.8
0708_03	500 ppm	Week : 13	14	19	215	0.9
0709_03	500 ppm	Week : 13	15	21	129	0.8
0710_03	500 ppm	Week : 13	14	19	81	0.8
0711_03	500 ppm	Day : 3	16	15	335	0.7
0711_03	500 ppm	Day : 23	16	21	277	0.9
0712_03	500 ppm	Day : 3	18	13	203	0.7
0712_03	500 ppm	Day : 23	19	21	232	0.7
0713_03	500 ppm	Day : 3	20	13	338	0.8
0713_03	500 ppm	Day : 23	54	14	1100	0.7
0714_03	500 ppm	Day : 3	15	15	241	0.8
0714_03	500 ppm	Day : 23	18	15	185	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	500 ppm	Day : 3	51	18	321	0.9
0715_03	500 ppm	Day : 23	19	14	236	0.8
0716_03	500 ppm	Day : 3	25	15	346	0.8
0716_03	500 ppm	Day : 23	64	20	181	0.8
0717_03	500 ppm	Day : 3	16	14	265	0.8
0717_03	500 ppm	Day : 23	17	18	323	0.8
0718_03	500 ppm	Day : 3	21	15	217	0.8
0718_03	500 ppm	Day : 23	28	19	386	0.8
0719_03	500 ppm	Day : 3	26	15	384	0.9
0719_03	500 ppm	Day : 23	31	16	172	0.8
0720_03	500 ppm	Day : 3	19	15	218	0.8
0720_03	500 ppm	Day : 23	20	18	151	0.7
0901_03	1000 ppm	Week : 13	42	20	90	0.8
0902_03	1000 ppm	Week : 13	21	23	78	0.8
0903_03	1000 ppm	Week : 13	23	21	80	0.8
0904_03	1000 ppm	Week : 13	57	23	166	0.9
0905_03	1000 ppm	Week : 13	21	20	113	0.8
0906_03	1000 ppm	Week : 13	25	24	80	0.8
0907_03	1000 ppm	Week : 13	61	21	97	0.8
0908_03	1000 ppm	Week : 13	23	20	172	0.8
0909_03	1000 ppm	Week : 13	15	19	95	0.8
0910_03	1000 ppm	Week : 13	29	17	79	0.9

## 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	1000 ppm	Week : 13	29	17	79	0.9
0911_03	1000 ppm	Day : 3	20	15	210	0.9
0911_03	1000 ppm	Day : 23	23	20	172	0.9
0912_03	1000 ppm	Day : 3	29	16	183	0.8
0912_03	1000 ppm	Day : 23	109	19	393	0.9
0913_03	1000 ppm	Day : 3	22	13	172	0.9
0913_03	1000 ppm	Day : 23	18	17	93	0.7
0914_03	1000 ppm	Day : 3	28	15	202	0.8
0914_03	1000 ppm	Day : 23	23	20	261	1
0915_03	1000 ppm	Day : 3	36	16	157	1
0915_03	1000 ppm	Day : 23	108	20	196	0.9
0916_03	1000 ppm	Day : 3	21	13	146	0.8
0916_03	1000 ppm	Day : 23	37	15	394	0.7
0917_03	1000 ppm	Day : 3	13	14	171	0.7
0917_03	1000 ppm	Day : 23	25	16	296	0.9
0918_03	1000 ppm	Day : 3	15	14	152	0.8
0918_03	1000 ppm	Day : 23	41	15	171	0.8
0919_03	1000 ppm	Day : 3	23	13	160	0.8
0919_03	1000 ppm	Day : 23	23	16	184	0.8
0920_03	1000 ppm	Day : 3	20	14	131	0.7
0920_03	1000 ppm	Day : 23	40	23	321	0.9
1101_03	1500 ppm	Week : 13	29	20	90	0.8

## 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	1500 ppm	Week : 13	32	18	47	0.8
1103_03	1500 ppm	Week : 13	35	20	90	0.8
1104_03	1500 ppm	Week : 13	30	21	89	0.8
1105_03	1500 ppm	Week : 13	21	21	152	0.9
1106_03	1500 ppm	Week : 13	72	21	78	0.8
1107_03	1500 ppm	Week : 13	71	17	98	0.9
1108_03	1500 ppm	Week : 13	29	17	225	0.8
1109_03	1500 ppm	Week : 13	33	16	119	0.8
1110_03	1500 ppm	Week : 13	39	23	75	0.8
1111_03	1500 ppm	Day : 3	21	16	132	0.9
1111_03	1500 ppm	Day : 23	55	18	462	1
1112_03	1500 ppm	Day : 3	47	16	347	1.1
1112_03	1500 ppm	Day : 23	36	19	99	0.8
1113_03	1500 ppm	Day : 3	31	18	226	0.9
1113_03	1500 ppm	Day : 23	45	19	267	1.1
1114_03	1500 ppm	Day : 3	34	17	368	1
1114_03	1500 ppm	Day : 23	43	17	440	1.1
1115_03	1500 ppm	Day : 3	31	16	274	1
1115_03	1500 ppm	Day : 23	65	18	170	1
1116_03	1500 ppm	Day : 3	30	15	230	0.8
1116_03	1500 ppm	Day : 23	39	20	206	0.9
1117_03	1500 ppm	Day : 3	22	15	204	0.9

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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	1500 ppm	Day : 3	22	15	204	0.9
1117_03	1500 ppm	Day : 23	42	22	147	0.8
1118_03	1500 ppm	Day : 3	27	15	140	0.8
1118_03	1500 ppm	Day : 23	29	18	170	1
1119_03	1500 ppm	Day : 3	16	15	200	0.9
1119_03	1500 ppm	Day : 23	94	20	261	1
1120_03	1500 ppm	Day : 3	28	15	96	0.8
1120_03	1500 ppm	Day : 23	52	21	158	1

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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	1.9	7.6	16
0102_03	0 ppm	Week : 13	1.6	7.6	19
0103_03	0 ppm	Week : 13	1.9	7.9	19
0104_03	0 ppm	Week : 13	1.8	7.5	22
0105_03	0 ppm	Week : 13	2.3	7.2	19
0106_03	0 ppm	Week : 13	2.2	7.5	16
0107_03	0 ppm	Week : 13	1.8	6.9	15
0108_03	0 ppm	Week : 13	1.9	7.1	18
0109_03	0 ppm	Week : 13	1.9	6.9	20
0110_03	0 ppm	Week : 13	2.1	7	17
0111_03	0 ppm	Day : 3	1.2	6.2	15
0111_03	0 ppm	Day : 23	1.8	6.6	19
0112_03	0 ppm	Day : 3	1.1	5.8	17
0112_03	0 ppm	Day : 23	1.6	6.1	12
0113_03	0 ppm	Day : 3	1.6	6.1	14
0113_03	0 ppm	Day : 23	2	6.2	19
0114_03	0 ppm	Day : 3	1	5.9	20
0114_03	0 ppm	Day : 23	1.7	6.5	19
0115_03	0 ppm	Day : 3	1.1	5.7	14
0115_03	0 ppm	Day : 23	1.4	6.2	18
0116_03	0 ppm	Day : 3	2	5.9	11
0116_03	0 ppm	Day : 23	1.9	5.9	15

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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	1.8	5.8	13
0117_03	0 ppm	Day : 23	1.3	5.8	17
0118_03	0 ppm	Day : 3	2	6.2	14
0118_03	0 ppm	Day : 23	1.7	6.4	14
0119_03	0 ppm	Day : 3	1.7	6.2	13
0119_03	0 ppm	Day : 23	1.8	6.4	20
0120_03	0 ppm	Day : 3	1.9	6	12
0120_03	0 ppm	Day : 23	1.5	6.3	16
0301_03	125 ppm	Week : 13	1.7	7.4	16
0302_03	125 ppm	Week : 13	1.7	7.6	17
0303_03	125 ppm	Week : 13	2.1	7.4	15
0304_03	125 ppm	Week : 13	2.1	7.2	13
0305_03	125 ppm	Week : 13	2	7.2	17
0306_03	125 ppm	Week : 13	2	7.4	23
0307_03	125 ppm	Week : 13	2	6.8	16
0308_03	125 ppm	Week : 13	2	7	19
0309_03	125 ppm	Week : 13	2.4	7	16
0310_03	125 ppm	Week : 13	2	6.9	16
0311_03	125 ppm	Day : 3	0.8	5.7	16
0311_03	125 ppm	Day : 23	1.5	6.3	15
0312_03	125 ppm	Day : 3	1.2	5.8	13
0312_03	125 ppm	Day : 23	1.7	6.6	17



Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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	125 ppm	Day : 3	1.4	6.1	18
0313_03	125 ppm	Day : 23	2	6.8	18
0314_03	125 ppm	Day : 3	1.5	5.7	15
0314_03	125 ppm	Day : 23	2.1	6.7	17
0315_03	125 ppm	Day : 3	1.2	5.9	16
0315_03	125 ppm	Day : 23	1.3	5.6	16
0316_03	125 ppm	Day : 3	1.1	6.2	18
0316_03	125 ppm	Day : 23	1.7	6.5	20
0317_03	125 ppm	Day : 3	1.1	5.6	16
0317_03	125 ppm	Day : 23	1.9	6.2	22
0318_03	125 ppm	Day : 3	1.5	6.2	16
0318_03	125 ppm	Day : 23	1.8	6.3	20
0319_03	125 ppm	Day : 3	1.2	5.7	13
0319_03	125 ppm	Day : 23	1.8	6.3	16
0320_03	125 ppm	Day : 3	1.5	5.8	13
0320_03	125 ppm	Day : 23	1.7	5.9	17
0501_03	250 ppm	Week : 13	1.5	6.9	16
0502_03	250 ppm	Week : 13	1.9	7.5	16
0503_03	250 ppm	Week : 13	1.6	7.2	14
0504_03	250 ppm	Week : 13	2	7.3	17
0505_03	250 ppm	Week : 13	2	6.9	19
0506_03	250 ppm	Week : 13	1.5	6.6	20

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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
0507_03	250 ppm	Week : 13	1.7	6.6	14
0508_03	250 ppm	Week : 13	1.8	6.9	18
0509_03	250 ppm	Week : 13	2.2	6.9	19
0510_03	250 ppm	Week : 13	2	6.9	16
0511_03	250 ppm	Day : 3	1.3	6.1	19
0511_03	250 ppm	Day : 23	1.3	6	17
0512_03	250 ppm	Day : 3	1.2	5.9	16
0512_03	250 ppm	Day : 23	2.4	6.6	18
0513_03	250 ppm	Day : 3	1.2	6.3	19
0513_03	250 ppm	Day : 23	1.7	6.2	18
0514_03	250 ppm	Day : 3	1	5.7	15
0514_03	250 ppm	Day : 23	1.8	5.9	19
0515_03	250 ppm	Day : 3	1.3	5.6	14
0515_03	250 ppm	Day : 23	1.8	6.6	20
0516_03	250 ppm	Day : 3	1.2	5.5	14
0516_03	250 ppm	Day : 23	1.7	6	17
0517_03	250 ppm	Day : 3	1	5.6	14
0517_03	250 ppm	Day : 23	1.4	5.8	17
0518_03	250 ppm	Day : 3	1.4	5.7	13
0518_03	250 ppm	Day : 23	1.5	6.2	18
0519_03	250 ppm	Day : 3	1.3	5.8	13
0519_03	250 ppm	Day : 23	1.4	5.7	18

## FEMALE

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0520_03	250 ppm	Day : 3	1.1	5.5	13
0520_03	250 ppm	Day : 23	1.5	6	21
0701_03	500 ppm	Week : 13	1.6	7.5	19
0702_03	500 ppm	Week : 13	1.7	7.2	17
0703_03	500 ppm	Week : 13	1.7	7.3	18
0704_03	500 ppm	Week : 13	1.7	7.1	16
0705_03	500 ppm	Week : 13	2.2	7.2	17
0706_03	500 ppm	Week : 13	2.2	7.1	14
0707_03	500 ppm	Week : 13	1.9	6.8	16
0708_03	500 ppm	Week : 13	2.1	7	14
0709_03	500 ppm	Week : 13	1.9	6.8	17
0710_03	500 ppm	Week : 13	2	6.7	23
0711_03	500 ppm	Day : 3	1.6	6	16
0711_03	500 ppm	Day : 23	1.8	5.8	18
0712_03	500 ppm	Day : 3	1.2	5.8	16
0712_03	500 ppm	Day : 23	1.4	6.3	19
0713_03	500 ppm	Day : 3	1.2	5.9	17
0713_03	500 ppm	Day : 23	1.4	5.7	14
0714_03	500 ppm	Day : 3	1.3	5.9	16
0714_03	500 ppm	Day : 23	1.6	6.1	14
0715_03	500 ppm	Day : 3	1.2	6	17
0715_03	500 ppm	Day : 23	1.8	6.1	20

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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
0716_03	500 ppm	Day : 3	1	5.5	15
0716_03	500 ppm	Day : 23	1.7	6.4	21
0717_03	500 ppm	Day : 3	1.3	5.7	14
0717_03	500 ppm	Day : 23	1.6	6.5	17
0718_03	500 ppm	Day : 3	1.2	5.7	16
0718_03	500 ppm	Day : 23	1.8	6.2	18
0719_03	500 ppm	Day : 3	1.5	6.3	17
0719_03	500 ppm	Day : 23	1.3	5.7	19
0720_03	500 ppm	Day : 3	1.6	6	15
0720_03	500 ppm	Day : 23	1.7	6.3	17
0901_03	1000 ppm	Week : 13	1.7	7.2	19
0902_03	1000 ppm	Week : 13	1.7	7.3	22
0903_03	1000 ppm	Week : 13	1.7	7.4	22
0904_03	1000 ppm	Week : 13	2.4	7.1	17
0905_03	1000 ppm	Week : 13	2.1	6.9	19
0906_03	1000 ppm	Week : 13	2	7.1	18
0907_03	1000 ppm	Week : 13	2	6.9	14
0908_03	1000 ppm	Week : 13	2.3	6.8	18
0909_03	1000 ppm	Week : 13	2.1	7.1	19
0910_03	1000 ppm	Week : 13	1.8	6.8	15
0911_03	1000 ppm	Day : 3	1.1	5.8	17
0911_03	1000 ppm	Day : 23	1.6	6.7	24

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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	1000 ppm	Day : 3	1.1	5.8	16
0912_03	1000 ppm	Day : 23	1.8	5.7	21
0913_03	1000 ppm	Day : 3	1.1	6	18
0913_03	1000 ppm	Day : 23	2.2	6.2	20
0914_03	1000 ppm	Day : 3	1.5	5.8	15
0914_03	1000 ppm	Day : 23	1.7	6	19
0915_03	1000 ppm	Day : 3	1.5	6	20
0915_03	1000 ppm	Day : 23	1.8	6.7	19
0916_03	1000 ppm	Day : 3	2.2	6.2	16
0916_03	1000 ppm	Day : 23	1.7	6.1	15
0917_03	1000 ppm	Day : 3	2.2	6.2	15
0917_03	1000 ppm	Day : 23	1.7	6.7	21
0918_03	1000 ppm	Day : 3	1.8	6	14
0918_03	1000 ppm	Day : 23	1.6	5.9	15
0919_03	1000 ppm	Day : 3	1.6	5.8	15
0919_03	1000 ppm	Day : 23	1.4	6.1	29
0920_03	1000 ppm	Day : 3	1.8	6	14
0920_03	1000 ppm	Day : 23	1.6	6.2	18
1101_03	1500 ppm	Week : 13	1.9	7.6	12
1102_03	1500 ppm	Week : 13	1.4	6.7	13
1103_03	1500 ppm	Week : 13	1.7	7.5	19
1104_03	1500 ppm	Week : 13	2.3	7.6	14

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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	1500 ppm	Week : 13	1.9	7.3	15
1106_03	1500 ppm	Week : 13	2	6.8	14
1107_03	1500 ppm	Week : 13	1.7	7	17
1108_03	1500 ppm	Week : 13	1.9	6.8	14
1109_03	1500 ppm	Week : 13	2	7	17
1110_03	1500 ppm	Week : 13	2.1	7.2	15
1111_03	1500 ppm	Day : 3	1.6	6	16
1111_03	1500 ppm	Day : 23	1.9	6.7	17
1112_03	1500 ppm	Day : 3	1.9	6.9	19
1112_03	1500 ppm	Day : 23	1.6	6.2	14
1113_03	1500 ppm	Day : 3	2.2	6.4	17
1113_03	1500 ppm	Day : 23	1.4	6.6	16
1114_03	1500 ppm	Day : 3	2.1	6.5	14
1114_03	1500 ppm	Day : 23	1.5	6.7	18
1115_03	1500 ppm	Day : 3	1.8	6.1	14
1115_03	1500 ppm	Day : 23	1.6	6.6	17
1116_03	1500 ppm	Day : 3	1.6	6.2	16
1116_03	1500 ppm	Day : 23	1.7	6.1	14
1117_03	1500 ppm	Day : 3	2.4	6.4	18
1117_03	1500 ppm	Day : 23	1.7	6.3	18
1118_03	1500 ppm	Day : 3	2	6	16
1118_03	1500 ppm	Day : 23	1.4	6.6	21

Experiment Number: 02200-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 14:26:57

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	1500 ppm	Day : 3	2.1	6.2	17
1119_03	1500 ppm	Day : 23	1.7	6.6	15
1120_03	1500 ppm	Day : 3	1.8	6.1	18
1120_03	1500 ppm	Day : 23	1.8	6.8	22

\*\* END OF REPORT \*\*