

**Experiment Number:** 88070-01

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

**P42: Clinical Chemistry Data**

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

**Time Report Requested:** 17:37:53

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

**Lab:** NA

**C Number:** C88070

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:53

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_01	0 ppm	Week : 13	4.9	1.53	426	88
0002_01	0 ppm	Week : 13	4.9	1.88	420	52
0003_01	0 ppm	Week : 13	5	2.08	402	51
0004_01	0 ppm	Week : 13	4.9	1.63	437	83
0005_01	0 ppm	Week : 13	5.1	1.89	400	45
0006_01	0 ppm	Week : 13	4.9	1.58	381	97
0007_01	0 ppm	Week : 13	4.3	1.34	317	63
0008_01	0 ppm	Week : 13	4.7	1.96	282	59
0009_01	0 ppm	Week : 13	4.6	1.64	302	72
0010_01	0 ppm	Week : 13	4.9	1.75	344	67
0011_01	0 ppm	Day : 3	4.8	3.2	676	28
0011_01	0 ppm	Day : 23	5	2.5	447	37
0012_01	0 ppm	Day : 3	5.4	4.5	734	34
0012_01	0 ppm	Day : 23	4.8	2.67	398	32
0013_01	0 ppm	Day : 3	4.8	3.43	832	35
0013_01	0 ppm	Day : 23	5.3	2.41	504	36
0014_01	0 ppm	Day : 3	5.4	4.91	777	33
0014_01	0 ppm	Day : 23	4.9	2.45	505	42
0015_01	0 ppm	Day : 3	5.2	5.78	864	37
0015_01	0 ppm	Day : 23	4.8	2.67	459	32
0016_01	0 ppm	Day : 3	4.6	4.18	682	33
0016_01	0 ppm	Day : 23	5.1	2.83	497	35

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:54

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
0017_01	0 ppm	Day : 3	4.9	4.08	210	38
0017_01	0 ppm	Day : 23	5	3.33	477	32
0018_01	0 ppm	Day : 3	4.7	4.27	752	38
0018_01	0 ppm	Day : 23	4.7	1.88	491	34
0019_01	0 ppm	Day : 3	5.2	5.78	561	31
0019_01	0 ppm	Day : 23	5.1	3.92	375	28
0020_01	0 ppm	Day : 3	5.2	5.2	652	43
0020_01	0 ppm	Day : 23	4.6	2.3	384	33
0201_01	500 ppm	Week : 13	4.9	1.69	394	48
0202_01	500 ppm	Week : 13	4.9	1.96	366	46
0203_01	500 ppm	Week : 13	5.1	1.89	382	72
0204_01	500 ppm	Week : 13	4.6	1.64	360	51
0205_01	500 ppm	Week : 13	4.7	1.57	388	59
0206_01	500 ppm	Week : 13	5	1.72	427	70
0207_01	500 ppm	Week : 13	5	1.85	378	58
0208_01	500 ppm	Week : 13	4.8	1.92	372	55
0209_01	500 ppm	Week : 13	4.9	1.88	378	60
0210_01	500 ppm	Week : 13	4.9	1.88	321	59
0211_01	500 ppm	Day : 3	5.2	4.73	956	31
0211_01	500 ppm	Day : 23	4.8	2.53	493	37
0212_01	500 ppm	Day : 3	5.1	3.4	698	30
0212_01	500 ppm	Day : 23	4.7	2.47	446	36

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:54

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_01	500 ppm	Day : 3	5.3	4.82	930	35
0213_01	500 ppm	Day : 23	4.9	2.72	500	31
0214_01	500 ppm	Day : 3	5.3	5.3	646	27
0214_01	500 ppm	Day : 23	5	2.5	359	40
0215_01	500 ppm	Day : 3	5.3	5.3	831	37
0215_01	500 ppm	Day : 23	4.7	2.61	400	31
0216_01	500 ppm	Day : 3	5.4	4.15	729	29
0216_01	500 ppm	Day : 23	4.9	3.06	451	32
0217_01	500 ppm	Day : 3	5.3	4.82	728	33
0217_01	500 ppm	Day : 23	4.8	2.82	479	34
0218_01	500 ppm	Day : 3	5.1	3.19	697	34
0218_01	500 ppm	Day : 23	4.9	2.72	470	35
0219_01	500 ppm	Day : 3	5.6	5.6	750	23
0219_01	500 ppm	Day : 23	5.2	3.25	458	33
0220_01	500 ppm	Day : 3	5.3	4.82	671	28
0220_01	500 ppm	Day : 23	4.9	4.08	395	30
0401_01	1000 ppm	Week : 13	5	1.72	394	46
0402_01	1000 ppm	Week : 13	5.1	1.82	407	51
0403_01	1000 ppm	Week : 13	5.2	2	346	54
0404_01	1000 ppm	Week : 13	4.4	1.38	383	50
0405_01	1000 ppm	Week : 13	4.9	1.69	363	58
0406_01	1000 ppm	Week : 13	4.7	1.42	360	66

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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_01	1000 ppm	Week : 13	4.9	1.81	336	52
0408_01	1000 ppm	Week : 13	4.9	1.81	332	49
0409_01	1000 ppm	Week : 13	4.9	1.75	370	60
0410_01	1000 ppm	Week : 13	4.6	1.7	338	55
0411_01	1000 ppm	Day : 3	5.6	7	928	35
0411_01	1000 ppm	Day : 23	4.7	2.47	480	32
0412_01	1000 ppm	Day : 3	5.5	5	721	26
0412_01	1000 ppm	Day : 23	5.2	3.71	502	32
0413_01	1000 ppm	Day : 3	5.2	4.73	676	29
0413_01	1000 ppm	Day : 23	5	3.33	398	36
0414_01	1000 ppm	Day : 3	4.5	3.75	882	35
0414_01	1000 ppm	Day : 23	4.6	2.3	464	31
0415_01	1000 ppm	Day : 3	5.3	4.42	646	30
0415_01	1000 ppm	Day : 23	4.7	2.61	452	29
0416_01	1000 ppm	Day : 3	4.9	4.08	763	36
0416_01	1000 ppm	Day : 23	4.7	2.14	432	33
0417_01	1000 ppm	Day : 3	5.1	5.1	754	36
0417_01	1000 ppm	Day : 23	5.2	3.25	483	33
0418_01	1000 ppm	Day : 3	5	5	716	34
0418_01	1000 ppm	Day : 23	4.9	3.27	426	33
0419_01	1000 ppm	Day : 3	5.1	5.67	589	32
0419_01	1000 ppm	Day : 23	5.3	2.79	494	42

Experiment Number: 88070-01

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
0420_01	1000 ppm	Day : 3	4.7	4.27	873	37
0420_01	1000 ppm	Day : 23	4.9	2.58	470	30
0601_01	2000 ppm	Week : 13	4.9	1.75	366	44
0602_01	2000 ppm	Week : 13	4.9	1.81	343	54
0603_01	2000 ppm	Week : 13	4.9	2.04	388	74
0604_01	2000 ppm	Week : 13	5.1	1.89	428	60
0605_01	2000 ppm	Week : 13	4.6	1.48	361	80
0606_01	2000 ppm	Week : 13	4.9	1.96	359	90
0607_01	2000 ppm	Week : 13	4.6	1.59	291	54
0608_01	2000 ppm	Week : 13	4.6	1.77	341	58
0609_01	2000 ppm	Week : 13	5.1	2.04	353	58
0610_01	2000 ppm	Week : 13	4.7	1.88	380	51
0611_01	2000 ppm	Day : 3	5.3	5.3	722	34
0611_01	2000 ppm	Day : 23	5	2.5	476	34
0612_01	2000 ppm	Day : 3	4.5	3.75	703	33
0612_01	2000 ppm	Day : 23	5.1	3.19	463	39
0613_01	2000 ppm	Day : 3	4.9	4.08	831	41
0613_01	2000 ppm	Day : 23	5.4	3.38	546	36
0614_01	2000 ppm	Day : 3	5	3.85	666	34
0614_01	2000 ppm	Day : 23	5.1	3	396	35
0615_01	2000 ppm	Day : 3	5.1	5.1	674	38
0615_01	2000 ppm	Day : 23	5.1	3	465	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
0616_01	2000 ppm	Day : 3	4.8	4.36	857	38
0616_01	2000 ppm	Day : 23	4.8	2.53	484	38
0617_01	2000 ppm	Day : 3	4.6	4.6	870	39
0617_01	2000 ppm	Day : 23	4.9	2.88	443	34
0618_01	2000 ppm	Day : 3	4.9	4.08	876	38
0618_01	2000 ppm	Day : 23	5	2.5	450	58
0619_01	2000 ppm	Day : 3	4.8	5.33	796	38
0619_01	2000 ppm	Day : 23	4.8	2.4	500	35
0620_01	2000 ppm	Day : 3	4.4	3.14	911	49
0620_01	2000 ppm	Day : 23	4.7	2.47	423	29
0801_01	4000 ppm	Week : 13	5.1	1.82	392	78
0802_01	4000 ppm	Week : 13	5.1	1.82	363	67
0803_01	4000 ppm	Week : 13	5.3	1.83	343	56
0804_01	4000 ppm	Week : 13	4.6	1.64	363	57
0805_01	4000 ppm	Week : 13	4.6	1.53	367	64
0806_01	4000 ppm	Week : 13	4.9	1.69	321	75
0807_01	4000 ppm	Week : 13	4.6	1.64	283	50
0808_01	4000 ppm	Week : 13	4.6	1.53	283	51
0809_01	4000 ppm	Week : 13	4.8	1.66	312	53
0810_01	4000 ppm	Week : 13	4.6	1.77	277	58
0811_01	4000 ppm	Day : 3	4.6	3.54	736	34
0811_01	4000 ppm	Day : 23	4.7	2.61	413	32

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Species/Strain: Rat/Fischer 344

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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_01	4000 ppm	Day : 3	4.3	3.31	865	39
0812_01	4000 ppm	Day : 23	4.7	2.76	490	34
0813_01	4000 ppm	Day : 3	4.8	5.33	890	35
0813_01	4000 ppm	Day : 23	5	4.17	506	33
0814_01	4000 ppm	Day : 3	5	5.56	731	34
0814_01	4000 ppm	Day : 23	4.7	2.47	430	29
0815_01	4000 ppm	Day : 23	4.7	2.24	487	35
0816_01	4000 ppm	Day : 3	4.9	4.08	711	
0816_01	4000 ppm	Day : 23	5.3	2.94	407	32
0817_01	4000 ppm	Day : 3	5.2	4.33	626	34
0817_01	4000 ppm	Day : 23	5.1	3	387	29
0818_01	4000 ppm	Day : 3	4.7	3.13	837	38
0818_01	4000 ppm	Day : 23	4.6	2.3	452	31
0819_01	4000 ppm	Day : 3	5.3	4.82	671	35
0819_01	4000 ppm	Day : 23	4.9	2.72	434	32
0820_01	4000 ppm	Day : 3	5.2	5.2	661	37
0820_01	4000 ppm	Day : 23	4.9	2.33	385	29
1001_01	8000 ppm	Week : 13	4.7	1.52	438	51
1002_01	8000 ppm	Week : 13	4.7	1.68	368	53
1003_01	8000 ppm	Week : 13	4.9	1.96	346	45
1004_01	8000 ppm	Week : 13	4.9	1.81	338	60
1005_01	8000 ppm	Week : 13	4.8	1.6	370	62



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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
1006_01	8000 ppm	Week : 13	4.3	1.43	356	50
1007_01	8000 ppm	Week : 13	4.9	2.04	343	43
1008_01	8000 ppm	Week : 13	4.7	1.81	323	62
1009_01	8000 ppm	Week : 13	5	1.85	406	59
1010_01	8000 ppm	Week : 13	4.9	2.04	351	77
1011_01	8000 ppm	Day : 3	5	4.55	667	33
1011_01	8000 ppm	Day : 23	4.8	3	423	36
1012_01	8000 ppm	Day : 3	5.1	5.1	907	43
1012_01	8000 ppm	Day : 23	5.1	3.92	551	37
1013_01	8000 ppm	Day : 3	5.2	4.33	753	37
1013_01	8000 ppm	Day : 23	4.9	2.33	438	35
1014_01	8000 ppm	Day : 3	5.1	4.25	569	37
1014_01	8000 ppm	Day : 23	4.4	2	366	38
1015_01	8000 ppm	Day : 3	4.6	3.54	874	36
1015_01	8000 ppm	Day : 23	4.8	3.2	488	30
1016_01	8000 ppm	Day : 3	4.7	3.92	757	41
1016_01	8000 ppm	Day : 23	4.9	3.27	486	32
1017_01	8000 ppm	Day : 3	5	4.55	616	35
1017_01	8000 ppm	Day : 23	4.8	2.82	374	28
1018_01	8000 ppm	Day : 3	5.3	5.3	872	36
1018_01	8000 ppm	Day : 23	5.1	3.19	466	32
1019_01	8000 ppm	Day : 3	5.1	4.25	579	35

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Species/Strain: Rat/Fischer 344

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Date Report Requested: 10/24/2014

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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
1019_01	8000 ppm	Day : 23	5	2.78	386	29
1020_01	8000 ppm	Day : 3	4.8	4.36	662	33
1020_01	8000 ppm	Day : 23	5	2.94	452	33

## 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_01	0 ppm	Week : 13	26.2	25	228	0.9
0002_01	0 ppm	Week : 13	18.2	21	123	0.9
0003_01	0 ppm	Week : 13	23.3	23	72	0.8
0004_01	0 ppm	Week : 13	40	22	173	0.9
0005_01	0 ppm	Week : 13	20.7	19	84	0.9
0006_01	0 ppm	Week : 13	26.2	20	66	0.9
0007_01	0 ppm	Week : 13	23.2	19	143	0.9
0008_01	0 ppm	Week : 13	17.9	19	80	0.8
0009_01	0 ppm	Week : 13	18	18	64	0.8
0010_01	0 ppm	Week : 13	20.4	20	65	0.8
0011_01	0 ppm	Day : 3	22.1	15	315	0.6
0011_01	0 ppm	Day : 23	13.9	18	164	0.8
0012_01	0 ppm	Day : 3	27.4	12	218	0.6
0012_01	0 ppm	Day : 23	15.9	16	350	0.8
0013_01	0 ppm	Day : 3	28.9	14	220	0.5
0013_01	0 ppm	Day : 23	19	16	198	0.7
0014_01	0 ppm	Day : 3	20.8	16	171	0.6
0014_01	0 ppm	Day : 23	17.7	16	167	0.7
0015_01	0 ppm	Day : 3	25	14	311	0.7
0015_01	0 ppm	Day : 23	17.2	16	160	0.8
0016_01	0 ppm	Day : 3	39	12	247	0.4
0016_01	0 ppm	Day : 23	17.8	15	292	0.7

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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	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0017_01	0 ppm	Day : 3	31.4	12	651	0.6
0017_01	0 ppm	Day : 23	18.4	16	179	0.7
0018_01	0 ppm	Day : 3	24.3	9	198	0.6
0018_01	0 ppm	Day : 23	20.8	16	134	0.7
0019_01	0 ppm	Day : 3	21.7	10	150	1
0019_01	0 ppm	Day : 23	16.2	14	161	0.7
0020_01	0 ppm	Day : 3	17.6	13	170	0.5
0020_01	0 ppm	Day : 23	13.9	13	182	0.7
0201_01	500 ppm	Week : 13	18.7	22	77	0.9
0202_01	500 ppm	Week : 13	20.5	19	93	0.8
0203_01	500 ppm	Week : 13	23.1	22	235	0.8
0204_01	500 ppm	Week : 13	34.4	19	171	0.9
0205_01	500 ppm	Week : 13	30.5	21	64	0.9
0206_01	500 ppm	Week : 13	52.7	22	151	1
0207_01	500 ppm	Week : 13	28.8	19	97	0.9
0208_01	500 ppm	Week : 13	19.2	18	56	0.8
0209_01	500 ppm	Week : 13	21.4	18	80	0.9
0210_01	500 ppm	Week : 13	27.8	17	84	0.9
0211_01	500 ppm	Day : 3	40.3	12	195	0.5
0211_01	500 ppm	Day : 23	19.2	16	150	0.7
0212_01	500 ppm	Day : 3	25.6	15	312	0.6
0212_01	500 ppm	Day : 23	17.5	16	131	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
0212_01	500 ppm	Day : 23	17.5	16	131	0.7
0213_01	500 ppm	Day : 3	22.9	15	223	0.6
0213_01	500 ppm	Day : 23	18.2	13	342	0.7
0214_01	500 ppm	Day : 3	19.3	16	151	0.7
0214_01	500 ppm	Day : 23	19.8	15	128	0.8
0215_01	500 ppm	Day : 3	21.2	10	184	0.6
0215_01	500 ppm	Day : 23	15.9	14	328	0.7
0216_01	500 ppm	Day : 3	21.9	15	161	0.7
0216_01	500 ppm	Day : 23	21.7	14	239	0.7
0217_01	500 ppm	Day : 3	24.6	16	235	0.6
0217_01	500 ppm	Day : 23	16.9	14	130	0.8
0218_01	500 ppm	Day : 3	24.8	13	187	0.7
0218_01	500 ppm	Day : 23	34.9	16	482	0.7
0219_01	500 ppm	Day : 3	8.7	14	150	0.6
0219_01	500 ppm	Day : 23	17.5	15	317	0.7
0220_01	500 ppm	Day : 3	17.1	16	209	0.6
0220_01	500 ppm	Day : 23	13.5	14	224	0.7
0401_01	1000 ppm	Week : 13	16.7	21	95	0.9
0402_01	1000 ppm	Week : 13	17.7	20	127	0.9
0403_01	1000 ppm	Week : 13	19.1	20	62	0.8
0404_01	1000 ppm	Week : 13	21.4	22	135	0.9
0405_01	1000 ppm	Week : 13	20.1	20	101	0.9

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Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

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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
0406_01	1000 ppm	Week : 13	33.1	19	76	0.9
0407_01	1000 ppm	Week : 13	20.5	16	91	0.9
0408_01	1000 ppm	Week : 13	19.4	16	76	0.9
0409_01	1000 ppm	Week : 13	20.4	19	183	0.9
0410_01	1000 ppm	Week : 13	24.5	15	85	0.9
0411_01	1000 ppm	Day : 3	33.7	14	226	0.6
0411_01	1000 ppm	Day : 23	17.9	15	125	0.6
0412_01	1000 ppm	Day : 3	25.7	12	197	0.7
0412_01	1000 ppm	Day : 23	18.9	15	182	0.7
0413_01	1000 ppm	Day : 3	30.9	13	284	0.6
0413_01	1000 ppm	Day : 23	15.1	15	247	0.7
0414_01	1000 ppm	Day : 3	25.5	11	236	0.6
0414_01	1000 ppm	Day : 23	19	15	163	0.7
0415_01	1000 ppm	Day : 3	19.5	14	204	0.7
0415_01	1000 ppm	Day : 23	16.5	16	191	0.7
0416_01	1000 ppm	Day : 3	23.1	11	237	0.5
0416_01	1000 ppm	Day : 23	13.3	14	143	0.8
0417_01	1000 ppm	Day : 3	17.3	10	237	0.5
0417_01	1000 ppm	Day : 23	16.7	13	147	0.6
0418_01	1000 ppm	Day : 3	19.7	13	351	0.4
0418_01	1000 ppm	Day : 23	14.8	15	173	0.7
0419_01	1000 ppm	Day : 3	16	13	165	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
0419_01	1000 ppm	Day : 3	16	13	165	0.5
0419_01	1000 ppm	Day : 23	20.8	15	383	0.8
0420_01	1000 ppm	Day : 3	20.3	12	211	0.5
0420_01	1000 ppm	Day : 23	14.4	13	207	0.8
0601_01	2000 ppm	Week : 13	18.1	24	91	0.9
0602_01	2000 ppm	Week : 13	19.3	23	81	0.8
0603_01	2000 ppm	Week : 13	28	21	77	0.8
0604_01	2000 ppm	Week : 13	20.9	22	139	0.9
0605_01	2000 ppm	Week : 13	28.8	20	92	0.9
0606_01	2000 ppm	Week : 13	69.6	21	171	0.9
0607_01	2000 ppm	Week : 13	23.5	19	160	0.9
0608_01	2000 ppm	Week : 13	20.7	18	73	0.9
0609_01	2000 ppm	Week : 13	20.4	18	77	0.8
0610_01	2000 ppm	Week : 13	22.1	18	67	0.8
0611_01	2000 ppm	Day : 3	28.2	13	234	0.5
0611_01	2000 ppm	Day : 23	19.5	17	137	0.7
0612_01	2000 ppm	Day : 3	23.4	12	309	0.4
0612_01	2000 ppm	Day : 23	18.8	17	270	0.7
0613_01	2000 ppm	Day : 3	20.5	11	207	0.5
0613_01	2000 ppm	Day : 23	16.2	17	186	0.8
0614_01	2000 ppm	Day : 3	22	13	254	0.6
0614_01	2000 ppm	Day : 23	19	14	183	0.7

Experiment Number: 88070-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:55

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
0615_01	2000 ppm	Day : 3	20.8	12	214	0.5
0615_01	2000 ppm	Day : 23	18.4	14	241	0.7
0616_01	2000 ppm	Day : 3	24.3	10	263	0.4
0616_01	2000 ppm	Day : 23	28.2	16	173	0.7
0617_01	2000 ppm	Day : 3	17.4	8	235	0.4
0617_01	2000 ppm	Day : 23	18.5	12	398	0.7
0618_01	2000 ppm	Day : 3	18.7	9	193	0.4
0618_01	2000 ppm	Day : 23	20.4	15	188	0.7
0619_01	2000 ppm	Day : 3	22	12	206	0.5
0619_01	2000 ppm	Day : 23	19.9	16	429	0.6
0620_01	2000 ppm	Day : 3	25.4	11	203	0.5
0620_01	2000 ppm	Day : 23	15.7	14	211	0.7
0801_01	4000 ppm	Week : 13	22.3	22	101	0.8
0802_01	4000 ppm	Week : 13	20	22	85	0.9
0803_01	4000 ppm	Week : 13	38.3	21	82	0.9
0804_01	4000 ppm	Week : 13	39.1	23	161	0.7
0805_01	4000 ppm	Week : 13	55.4	21	97	0.9
0806_01	4000 ppm	Week : 13	23.2	18	62	0.9
0807_01	4000 ppm	Week : 13	21.9	17	128	0.9
0808_01	4000 ppm	Week : 13	21.6	18	79	0.9
0809_01	4000 ppm	Week : 13	19.6	17	80	0.9
0810_01	4000 ppm	Week : 13	40.7	17	85	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
0810_01	4000 ppm	Week : 13	40.7	17	85	0.8
0811_01	4000 ppm	Day : 3	21	11	192	0.5
0811_01	4000 ppm	Day : 23	14.2	15	210	0.7
0812_01	4000 ppm	Day : 3	19.6	11	238	0.4
0812_01	4000 ppm	Day : 23	17.8	16	359	0.7
0813_01	4000 ppm	Day : 3	25.9	9	243	0.5
0813_01	4000 ppm	Day : 23	14.9	14	171	0.7
0814_01	4000 ppm	Day : 3	24.3	10	250	0.5
0814_01	4000 ppm	Day : 23	16.7	15	255	0.7
0815_01	4000 ppm	Day : 23	19.6	16	228	0.7
0816_01	4000 ppm	Day : 3		12		0.8
0816_01	4000 ppm	Day : 23	16.4	15	140	0.8
0817_01	4000 ppm	Day : 3	25.7	13	322	0.5
0817_01	4000 ppm	Day : 23	18.1	14	170	0.8
0818_01	4000 ppm	Day : 3	24.9	12	504	0.5
0818_01	4000 ppm	Day : 23	17	14	215	0.7
0819_01	4000 ppm	Day : 3	19.9	15	212	0.5
0819_01	4000 ppm	Day : 23	18.4	15	218	0.7
0820_01	4000 ppm	Day : 3	19.3	14	222	0.6
0820_01	4000 ppm	Day : 23	18.2	15	188	0.7
1001_01	8000 ppm	Week : 13	24.1	23	92	0.9
1002_01	8000 ppm	Week : 13	19.6	20	97	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
1003_01	8000 ppm	Week : 13	21.3	21	67	0.8
1004_01	8000 ppm	Week : 13	24.9	17	163	0.8
1005_01	8000 ppm	Week : 13	31.4	20	89	0.9
1006_01	8000 ppm	Week : 13	26.9	19	88	0.8
1007_01	8000 ppm	Week : 13	23.3	19	106	0.9
1008_01	8000 ppm	Week : 13	21.2	16	91	0.8
1009_01	8000 ppm	Week : 13	22	19	123	0.8
1010_01	8000 ppm	Week : 13	35.6	18	135	0.9
1011_01	8000 ppm	Day : 3	22.3	11	238	0.5
1011_01	8000 ppm	Day : 23	15.8	15	209	0.7
1012_01	8000 ppm	Day : 3	26.3	10	306	0.5
1012_01	8000 ppm	Day : 23	22.8	15	355	0.6
1013_01	8000 ppm	Day : 3	19.1	10	305	0.6
1013_01	8000 ppm	Day : 23	13.6	15	380	0.8
1014_01	8000 ppm	Day : 3	20.1	12	242	0.5
1014_01	8000 ppm	Day : 23	16.3	15	306	0.8
1015_01	8000 ppm	Day : 3	23.8	11	298	0.6
1015_01	8000 ppm	Day : 23	17.2	14	215	0.7
1016_01	8000 ppm	Day : 3	26.1	14	429	0.4
1016_01	8000 ppm	Day : 23	17.6	14	230	0.7
1017_01	8000 ppm	Day : 3	22	14	213	0.5
1017_01	8000 ppm	Day : 23	17.4	14	167	0.7

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

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
1017_01	8000 ppm	Day : 23	17.4	14	167	0.7
1018_01	8000 ppm	Day : 3	26.7	11	227	0.4
1018_01	8000 ppm	Day : 23	18.6	14	238	0.6
1019_01	8000 ppm	Day : 3	19.3	12	186	0.6
1019_01	8000 ppm	Day : 23	15.4	14	159	0.8
1020_01	8000 ppm	Day : 3	20.1	10	197	0.5
1020_01	8000 ppm	Day : 23	19.4	16	152	0.7

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0001_01	0 ppm	Week : 13	3.2	121	8.1	24
0002_01	0 ppm	Week : 13	2.6	129	7.5	14
0003_01	0 ppm	Week : 13	2.4	177	7.4	14
0004_01	0 ppm	Week : 13	3	178	7.9	22
0005_01	0 ppm	Week : 13	2.7	138	7.8	15
0006_01	0 ppm	Week : 13	3.1	169	8	22
0007_01	0 ppm	Week : 13	3.2	182	7.5	15
0008_01	0 ppm	Week : 13	2.4	151	7.1	17
0009_01	0 ppm	Week : 13	2.8	135	7.4	15
0010_01	0 ppm	Week : 13	2.8	146	7.7	18
0011_01	0 ppm	Day : 3	1.5	148	6.3	8
0011_01	0 ppm	Day : 23	2	149	7	13
0012_01	0 ppm	Day : 3	1.2	151	6.6	15
0012_01	0 ppm	Day : 23	1.8	134	6.6	10
0013_01	0 ppm	Day : 3	1.4	142	6.2	14
0013_01	0 ppm	Day : 23	2.2	162	7.5	13
0014_01	0 ppm	Day : 3	1.1	162	6.5	13
0014_01	0 ppm	Day : 23	2	183	6.9	12
0015_01	0 ppm	Day : 3	0.9	168	6.1	14
0015_01	0 ppm	Day : 23	1.8	145	6.6	11
0016_01	0 ppm	Day : 3	1.1	133	5.7	11
0016_01	0 ppm	Day : 23	1.8	169	6.9	13

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0017_01	0 ppm	Day : 3	1.2	124	6.1	13
0017_01	0 ppm	Day : 23	1.5	162	6.5	10
0018_01	0 ppm	Day : 3	1.1	141	5.8	13
0018_01	0 ppm	Day : 23	2.5	149	7.2	12
0019_01	0 ppm	Day : 3	0.9	135	6.1	14
0019_01	0 ppm	Day : 23	1.3	163	6.4	11
0020_01	0 ppm	Day : 3	1	151	6.2	13
0020_01	0 ppm	Day : 23	2	158	6.6	12
0201_01	500 ppm	Week : 13	2.9	137	7.8	13
0202_01	500 ppm	Week : 13	2.5	166	7.4	14
0203_01	500 ppm	Week : 13	2.7	168	7.8	16
0204_01	500 ppm	Week : 13	2.8	266	7.4	13
0205_01	500 ppm	Week : 13	3	214	7.7	15
0206_01	500 ppm	Week : 13	2.9	207	7.9	20
0207_01	500 ppm	Week : 13	2.7	173	7.7	17
0208_01	500 ppm	Week : 13	2.5	166	7.3	15
0209_01	500 ppm	Week : 13	2.6	156	7.5	17
0210_01	500 ppm	Week : 13	2.6	196	7.5	17
0211_01	500 ppm	Day : 3	1.1	144	6.3	14
0211_01	500 ppm	Day : 23	1.9	142	6.7	10
0212_01	500 ppm	Day : 3	1.5	163	6.6	13
0212_01	500 ppm	Day : 23	1.9	139	6.6	11

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0213_01	500 ppm	Day : 3	1.1	161	6.4	13
0213_01	500 ppm	Day : 23	1.8	138	6.7	13
0214_01	500 ppm	Day : 3	1	167	6.3	11
0214_01	500 ppm	Day : 23	2	135	7	15
0215_01	500 ppm	Day : 3	1	154	6.3	11
0215_01	500 ppm	Day : 23	1.8	155	6.5	10
0216_01	500 ppm	Day : 3	1.3	162	6.7	12
0216_01	500 ppm	Day : 23	1.6	146	6.5	12
0217_01	500 ppm	Day : 3	1.1	158	6.4	12
0217_01	500 ppm	Day : 23	1.7	140	6.5	9
0218_01	500 ppm	Day : 3	1.6	150	6.7	10
0218_01	500 ppm	Day : 23	1.8	244	6.7	15
0219_01	500 ppm	Day : 3	1	162	6.6	8
0219_01	500 ppm	Day : 23	1.6	169	6.8	14
0220_01	500 ppm	Day : 3	1.1	162	6.4	11
0220_01	500 ppm	Day : 23	1.2	152	6.1	12
0401_01	1000 ppm	Week : 13	2.9	148	7.9	15
0402_01	1000 ppm	Week : 13	2.8	137	7.9	14
0403_01	1000 ppm	Week : 13	2.6	163	7.8	13
0404_01	1000 ppm	Week : 13	3.2	151	7.6	14
0405_01	1000 ppm	Week : 13	2.9	147	7.8	14
0406_01	1000 ppm	Week : 13	3.3	183	8	16

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0407_01	1000 ppm	Week : 13	2.7	151	7.6	16
0408_01	1000 ppm	Week : 13	2.7	165	7.6	13
0409_01	1000 ppm	Week : 13	2.8	154	7.7	14
0410_01	1000 ppm	Week : 13	2.7	179	7.3	13
0411_01	1000 ppm	Day : 3	0.8	149	6.4	14
0411_01	1000 ppm	Day : 23	1.9	142	6.6	10
0412_01	1000 ppm	Day : 3	1.1	148	6.6	14
0412_01	1000 ppm	Day : 23	1.4	168	6.6	10
0413_01	1000 ppm	Day : 3	1.1	163	6.3	12
0413_01	1000 ppm	Day : 23	1.5	148	6.5	13
0414_01	1000 ppm	Day : 3	1.2	156	5.7	13
0414_01	1000 ppm	Day : 23	2	142	6.6	11
0415_01	1000 ppm	Day : 3	1.2	157	6.5	13
0415_01	1000 ppm	Day : 23	1.8	156	6.5	11
0416_01	1000 ppm	Day : 3	1.2	195	6.1	15
0416_01	1000 ppm	Day : 23	2.2	164	6.9	12
0417_01	1000 ppm	Day : 3	1	162	6.1	13
0417_01	1000 ppm	Day : 23	1.6	182	6.8	10
0418_01	1000 ppm	Day : 3	1	162	6	12
0418_01	1000 ppm	Day : 23	1.5	159	6.4	10
0419_01	1000 ppm	Day : 3	0.9	156	6	12
0419_01	1000 ppm	Day : 23	1.9	156	7.2	18

Experiment Number: 88070-01

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0420_01	1000 ppm	Day : 3	1.1	167	5.8	12
0420_01	1000 ppm	Day : 23	1.9	154	6.8	13
0601_01	2000 ppm	Week : 13	2.8	128	7.7	16
0602_01	2000 ppm	Week : 13	2.7	170	7.6	18
0603_01	2000 ppm	Week : 13	2.4	175	7.3	17
0604_01	2000 ppm	Week : 13	2.7	165	7.8	18
0605_01	2000 ppm	Week : 13	3.1	178	7.7	17
0606_01	2000 ppm	Week : 13	2.5	258	7.4	18
0607_01	2000 ppm	Week : 13	2.9	166	7.5	15
0608_01	2000 ppm	Week : 13	2.6	148	7.2	14
0609_01	2000 ppm	Week : 13	2.5	160	7.6	16
0610_01	2000 ppm	Week : 13	2.5	166	7.2	14
0611_01	2000 ppm	Day : 3	1	150	6.3	14
0611_01	2000 ppm	Day : 23	2	147	7	10
0612_01	2000 ppm	Day : 3	1.2	157	5.7	10
0612_01	2000 ppm	Day : 23	1.6	162	6.7	13
0613_01	2000 ppm	Day : 3	1.2	152	6.1	14
0613_01	2000 ppm	Day : 23	1.6	134	7	14
0614_01	2000 ppm	Day : 3	1.3	162	6.3	15
0614_01	2000 ppm	Day : 23	1.7	139	6.8	15
0615_01	2000 ppm	Day : 3	1	158	6.1	14
0615_01	2000 ppm	Day : 23	1.7	156	6.8	13



Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0616_01	2000 ppm	Day : 3	1.1	163	5.9	14
0616_01	2000 ppm	Day : 23	1.9	144	6.7	13
0617_01	2000 ppm	Day : 3	1	168	5.6	12
0617_01	2000 ppm	Day : 23	1.7	153	6.6	12
0618_01	2000 ppm	Day : 3	1.2	156	6.1	12
0618_01	2000 ppm	Day : 23	2	157	7	23
0619_01	2000 ppm	Day : 3	0.9	162	5.7	12
0619_01	2000 ppm	Day : 23	2	146	6.8	12
0620_01	2000 ppm	Day : 3	1.4	196	5.8	12
0620_01	2000 ppm	Day : 23	1.9	161	6.6	12
0801_01	4000 ppm	Week : 13	2.8	150	7.9	22
0802_01	4000 ppm	Week : 13	2.8	152	7.9	18
0803_01	4000 ppm	Week : 13	2.9	168	8.2	17
0804_01	4000 ppm	Week : 13	2.8	274	7.4	18
0805_01	4000 ppm	Week : 13	3	218	7.6	14
0806_01	4000 ppm	Week : 13	2.9	173	7.8	16
0807_01	4000 ppm	Week : 13	2.8	157	7.4	14
0808_01	4000 ppm	Week : 13	3	169	7.6	14
0809_01	4000 ppm	Week : 13	2.9	142	7.7	15
0810_01	4000 ppm	Week : 13	2.6	178	7.2	17
0811_01	4000 ppm	Day : 3	1.3	142	5.9	14
0811_01	4000 ppm	Day : 23	1.8	150	6.5	12

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0812_01	4000 ppm	Day : 3	1.3	148	5.6	11
0812_01	4000 ppm	Day : 23	1.7	149	6.4	10
0813_01	4000 ppm	Day : 3	0.9	150	5.7	14
0813_01	4000 ppm	Day : 23	1.2	154	6.2	10
0814_01	4000 ppm	Day : 3	0.9	158	5.9	13
0814_01	4000 ppm	Day : 23	1.9	154	6.6	11
0815_01	4000 ppm	Day : 23	2.1	167	6.8	12
0816_01	4000 ppm	Day : 3	1.2	162	6.1	15
0816_01	4000 ppm	Day : 23	1.8	155	7.1	12
0817_01	4000 ppm	Day : 3	1.2	138	6.4	12
0817_01	4000 ppm	Day : 23	1.7	140	6.8	14
0818_01	4000 ppm	Day : 3	1.5	141	6.2	13
0818_01	4000 ppm	Day : 23	2	147	6.6	11
0819_01	4000 ppm	Day : 3	1.1	143	6.4	16
0819_01	4000 ppm	Day : 23	1.8	159	6.7	13
0820_01	4000 ppm	Day : 3	1	138	6.2	14
0820_01	4000 ppm	Day : 23	2.1	150	7	12
1001_01	8000 ppm	Week : 13	3.1	160	7.8	17
1002_01	8000 ppm	Week : 13	2.8	134	7.5	15
1003_01	8000 ppm	Week : 13	2.5	152	7.4	15
1004_01	8000 ppm	Week : 13	2.7	160	7.6	15
1005_01	8000 ppm	Week : 13	3	247	7.8	14

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
1006_01	8000 ppm	Week : 13	3	172	7.3	13
1007_01	8000 ppm	Week : 13	2.4	149	7.3	15
1008_01	8000 ppm	Week : 13	2.6	149	7.3	16
1009_01	8000 ppm	Week : 13	2.7	168	7.7	16
1010_01	8000 ppm	Week : 13	2.4	169	7.3	24
1011_01	8000 ppm	Day : 3	1.1	130	6.1	14
1011_01	8000 ppm	Day : 23	1.6	164	6.4	10
1012_01	8000 ppm	Day : 3	1	134	6.1	15
1012_01	8000 ppm	Day : 23	1.3	187	6.4	12
1013_01	8000 ppm	Day : 3	1.2	137	6.4	18
1013_01	8000 ppm	Day : 23	2.1	145	7	10
1014_01	8000 ppm	Day : 3	1.2	137	6.3	13
1014_01	8000 ppm	Day : 23	2.2	135	6.6	14
1015_01	8000 ppm	Day : 3	1.3	139	5.9	14
1015_01	8000 ppm	Day : 23	1.5	145	6.3	11
1016_01	8000 ppm	Day : 3	1.2	130	5.9	12
1016_01	8000 ppm	Day : 23	1.5	149	6.4	11
1017_01	8000 ppm	Day : 3	1.1	138	6.1	13
1017_01	8000 ppm	Day : 23	1.7	162	6.5	11
1018_01	8000 ppm	Day : 3	1	139	6.3	14
1018_01	8000 ppm	Day : 23	1.6	175	6.7	11
1019_01	8000 ppm	Day : 3	1.2	149	6.3	12

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:55

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	Glucose mg per dL	Protein Total g per dL	SDH IU per L
1019_01	8000 ppm	Day : 23	1.8	148	6.8	11
1020_01	8000 ppm	Day : 3	1.1	151	5.9	11
1020_01	8000 ppm	Day : 23	1.7	144	6.7	11

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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
0101_01	0 ppm	Week : 13	5.6	2.67	406	55
0102_01	0 ppm	Week : 13	5.1	2.68	308	52
0103_01	0 ppm	Week : 13	5.2	2.48	304	40
0104_01	0 ppm	Week : 13	5	2.38	286	39
0105_01	0 ppm	Week : 13	5.2	1.93	335	40
0106_01	0 ppm	Week : 13	4.9	2.13	254	52
0107_01	0 ppm	Week : 13	5.2	2.6	281	41
0108_01	0 ppm	Week : 13	4.6	2.09	330	43
0109_01	0 ppm	Week : 13	5	2.08	237	50
0110_01	0 ppm	Week : 13	5.1	2.43	328	56
0111_01	0 ppm	Day : 3	5.5	9.17	499	33
0111_01	0 ppm	Day : 23	4.9	3.06	375	27
0112_01	0 ppm	Day : 3	5.9	11.8	578	40
0112_01	0 ppm	Day : 23	4.6	2.3	316	28
0113_01	0 ppm	Day : 3	5.7	11.4	590	35
0113_01	0 ppm	Day : 23	4.5	2.81	381	32
0114_01	0 ppm	Day : 3	5.8	7.25	505	39
0114_01	0 ppm	Day : 23	5.1	3	306	28
0115_01	0 ppm	Day : 3	5.7	11.4	576	35
0115_01	0 ppm	Day : 23	4.7	2.94	338	35
0116_01	0 ppm	Day : 3	5.1	6.37	660	34
0116_01	0 ppm	Day : 23	4.7	2.61	324	32

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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
0117_01	0 ppm	Day : 3	5.1	5.67	663	30
0117_01	0 ppm	Day : 23	4.6	2.56	352	28
0118_01	0 ppm	Day : 3	5.2	5.2	661	35
0118_01	0 ppm	Day : 23	4.4	2.2	406	30
0119_01	0 ppm	Day : 3	4.8	5.33	482	29
0119_01	0 ppm	Day : 23	4.6	2.42	343	30
0120_01	0 ppm	Day : 3	5	7.14	614	28
0120_01	0 ppm	Day : 23	4.7	2.76	329	33
0301_01	500 ppm	Week : 13	5.3	2.52	391	49
0302_01	500 ppm	Week : 13	5.1	2.43	350	90
0303_01	500 ppm	Week : 13	4.9	2.23	314	51
0304_01	500 ppm	Week : 13	5.6	2.43	310	93
0305_01	500 ppm	Week : 13	5	2	271	45
0306_01	500 ppm	Week : 13	6	2.73	359	71
0307_01	500 ppm	Week : 13	5.1	2.43	306	63
0308_01	500 ppm	Week : 13	5.1	1.96	310	82
0309_01	500 ppm	Week : 13	5.5	2.62	354	50
0310_01	500 ppm	Week : 13	4.6	1.77	312	55
0311_01	500 ppm	Day : 3	6	20	686	36
0311_01	500 ppm	Day : 23	5.1	3.19	372	31
0312_01	500 ppm	Day : 3	5.5	7.86	456	35
0312_01	500 ppm	Day : 23	4.9	2.33	374	32

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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
0313_01	500 ppm	Day : 3	5.4	4.15	591	30
0313_01	500 ppm	Day : 23	4.4	2.2	403	28
0314_01	500 ppm	Day : 3	6.4		601	35
0314_01	500 ppm	Day : 23	5	2.94	387	28
0315_01	500 ppm	Day : 3	5.9	29.5	554	28
0315_01	500 ppm	Day : 23	5	2.78	398	34
0316_01	500 ppm	Day : 3	5.4	6.75	507	39
0316_01	500 ppm	Day : 23	4.7	2.14	329	28
0317_01	500 ppm	Day : 3	5.3	10.6	549	32
0317_01	500 ppm	Day : 23	4.8	3	430	35
0318_01	500 ppm	Day : 3	5.7	19	622	37
0318_01	500 ppm	Day : 23	4.3	2.26	393	32
0319_01	500 ppm	Day : 3	5.7	14.25	628	39
0319_01	500 ppm	Day : 23	4.9	2.88	448	62
0320_01	500 ppm	Day : 3	5.6	18.67	571	32
0320_01	500 ppm	Day : 23	4.9	2.72	378	30
0501_01	1000 ppm	Week : 13	5.5	2.62	452	60
0502_01	1000 ppm	Week : 13	5.6	2.33	421	55
0503_01	1000 ppm	Week : 13	4.8	2.4	364	42
0504_01	1000 ppm	Week : 13	5.3	1.89	362	50
0505_01	1000 ppm	Week : 13	5.1	2.04	407	67
0506_01	1000 ppm	Week : 13	5.5	2.29	354	72

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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
0507_01	1000 ppm	Week : 13	5.2	2	361	57
0508_01	1000 ppm	Week : 13	5	1.92	319	43
0509_01	1000 ppm	Week : 13	5.1	1.96	334	56
0510_01	1000 ppm	Week : 13	4.3	1.59	315	48
0511_01	1000 ppm	Day : 3	5.3	6.63	545	30
0511_01	1000 ppm	Day : 23	4.9	2.58	395	32
0512_01	1000 ppm	Day : 3	5.6	11.2	683	40
0512_01	1000 ppm	Day : 23	4.9	2.72	407	27
0513_01	1000 ppm	Day : 3	5.8	19.33	575	33
0513_01	1000 ppm	Day : 23	4.7	2.94	399	30
0514_01	1000 ppm	Day : 3	5.6	11.2	752	44
0514_01	1000 ppm	Day : 23	4.6	3.07	346	29
0515_01	1000 ppm	Day : 3	6.2	10.33	463	35
0515_01	1000 ppm	Day : 23	4.4	2.32	357	28
0516_01	1000 ppm	Day : 3	5	8.33	547	31
0516_01	1000 ppm	Day : 23	4.4	2.32	393	27
0517_01	1000 ppm	Day : 3	5.5	13.75	647	39
0517_01	1000 ppm	Day : 23	4.8	2.53	367	33
0518_01	1000 ppm	Day : 3	5.2	10.4	566	39
0518_01	1000 ppm	Day : 23	4.4	2.2	367	33
0519_01	1000 ppm	Day : 3	5.3	8.83	440	33
0519_01	1000 ppm	Day : 23	5.4	3.6	281	28



Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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
0520_01	1000 ppm	Day : 3	5.6	28	471	28
0520_01	1000 ppm	Day : 23	5	2.94	346	29
0701_01	2000 ppm	Week : 13	5.1	2.55	310	50
0702_01	2000 ppm	Week : 13	5.5	2.62	399	111
0703_01	2000 ppm	Week : 13	5.1	2.22	366	93
0704_01	2000 ppm	Week : 13	4.7	1.81	336	60
0705_01	2000 ppm	Week : 13	4.8	1.92	344	42
0706_01	2000 ppm	Week : 13	5.1	2.13	271	53
0707_01	2000 ppm	Week : 13	5	2.08	278	43
0708_01	2000 ppm	Week : 13	5.5	2.89	277	60
0709_01	2000 ppm	Week : 13	5	2.5	331	74
0710_01	2000 ppm	Week : 13	5	2.17	259	75
0711_01	2000 ppm	Day : 3	5.6	18.67	592	39
0711_01	2000 ppm	Day : 23	4.6	3.07	382	33
0712_01	2000 ppm	Day : 3	5.7	14.25	609	38
0712_01	2000 ppm	Day : 23	4.9	3.27	373	32
0713_01	2000 ppm	Day : 3	5.4	13.5	584	29
0713_01	2000 ppm	Day : 23	4.6	2.88	381	25
0714_01	2000 ppm	Day : 3	5.6	11.2	541	32
0714_01	2000 ppm	Day : 23	4.6	2.71	382	33
0715_01	2000 ppm	Day : 3	5.5	18.33	505	29
0715_01	2000 ppm	Day : 23	4.9	2.88	328	25

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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
0716_01	2000 ppm	Day : 3	5.6	8	436	36
0716_01	2000 ppm	Day : 23	4.7	2.61	331	27
0717_01	2000 ppm	Day : 3	5.3	13.25	574	31
0717_01	2000 ppm	Day : 23	4.8	2.82	425	30
0718_01	2000 ppm	Day : 3	5.5	9.17	515	33
0718_01	2000 ppm	Day : 23	4.9	3.27	357	29
0719_01	2000 ppm	Day : 3	5.6	14	438	30
0719_01	2000 ppm	Day : 23	4.6	2.3	336	27
0720_01	2000 ppm	Day : 3	5.4	10.8	594	39
0720_01	2000 ppm	Day : 23	4.6	3.07	367	29
0901_01	4000 ppm	Week : 13	5.3	2.12	385	49
0902_01	4000 ppm	Week : 13	5.1	2.55	343	44
0903_01	4000 ppm	Week : 13	4.9	2.72	298	46
0904_01	4000 ppm	Week : 13	5.1	2.04	391	94
0905_01	4000 ppm	Week : 13	5	1.92	311	47
0906_01	4000 ppm	Week : 13	4.6	1.84	314	39
0907_01	4000 ppm	Week : 13	4.8	1.78	296	55
0908_01	4000 ppm	Week : 13	4.7	2.14	288	54
0909_01	4000 ppm	Week : 13	5.2	2.08	304	68
0910_01	4000 ppm	Week : 13	4.8	2	282	45
0911_01	4000 ppm	Day : 3	5.3	10.6	527	29
0911_01	4000 ppm	Day : 23	4.5	2.5	343	30

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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_01	4000 ppm	Day : 3	5.8	14.5	395	33
0912_01	4000 ppm	Day : 23	4.7	2.94	295	28
0913_01	4000 ppm	Day : 3	5.6	14	490	35
0913_01	4000 ppm	Day : 23	4.9	2.72	313	29
0914_01	4000 ppm	Day : 3	5.7	14.25	450	39
0914_01	4000 ppm	Day : 23	4.6	2.56	376	27
0915_01	4000 ppm	Day : 3	5.5	13.75	423	30
0915_01	4000 ppm	Day : 23	4.8	2.67	275	30
0916_01	4000 ppm	Day : 3	4.8	4	553	28
0916_01	4000 ppm	Day : 23	5.1	2.83	359	29
0917_01	4000 ppm	Day : 3	5.3	7.57	478	34
0917_01	4000 ppm	Day : 23	4.6	2.71	311	30
0918_01	4000 ppm	Day : 3	5.3	5.89	567	34
0918_01	4000 ppm	Day : 23	4.6	2.71	344	27
0919_01	4000 ppm	Day : 3	5.6	8	463	35
0919_01	4000 ppm	Day : 23	5.1	3	338	31
0920_01	4000 ppm	Day : 3	5.1	6.37	509	28
0920_01	4000 ppm	Day : 23	4.6	3.07	347	31
1101_01	8000 ppm	Week : 13	5.4	2.16	392	69
1102_01	8000 ppm	Week : 13	5.1	2.68	298	59
1103_01	8000 ppm	Week : 13	4.8	2.29	310	85
1104_01	8000 ppm	Week : 13	5.3	2.52	286	68

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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_01	8000 ppm	Week : 13	5.2	2.17	302	51
1106_01	8000 ppm	Week : 13	4.8	1.85	285	56
1107_01	8000 ppm	Week : 13	4.9	2.33	255	44
1108_01	8000 ppm	Week : 13	4.9	2.13	285	45
1109_01	8000 ppm	Week : 13	5	2.27	364	56
1110_01	8000 ppm	Week : 13	5	2.08	279	65
1111_01	8000 ppm	Day : 3	5.3	5.3	643	30
1111_01	8000 ppm	Day : 23	4.5	2.65	368	30
1112_01	8000 ppm	Day : 3	5.5	6.11	490	29
1112_01	8000 ppm	Day : 23	4.5	2.25	297	31
1113_01	8000 ppm	Day : 3	5.4	10.8	671	37
1113_01	8000 ppm	Day : 23	4.7	2.76	393	26
1114_01	8000 ppm	Day : 3	5.9	14.75	507	38
1114_01	8000 ppm	Day : 23	4.6	2.42	332	26
1115_01	8000 ppm	Day : 3	5.3	7.57	462	33
1115_01	8000 ppm	Day : 23	4.6	2.19	365	33
1116_01	8000 ppm	Day : 3	5.2	5.78	689	35
1116_01	8000 ppm	Day : 23	4.9	2.58	337	30
1117_01	8000 ppm	Day : 3	5.4	7.71	469	35
1117_01	8000 ppm	Day : 23	4.9	2.72	334	31
1118_01	8000 ppm	Day : 3	5.3	6.63	539	28
1118_01	8000 ppm	Day : 23	5.1	3	355	34

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:56

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_01	8000 ppm	Day : 3	4.8	4.36	539	32
1119_01	8000 ppm	Day : 23	4.8	2.82	333	29
1120_01	8000 ppm	Day : 3	5.1	6.37	532	33
1120_01	8000 ppm	Day : 23	4.6	2.42	357	29

## 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_01	0 ppm	Week : 13	25.5	26	125	0.9
0102_01	0 ppm	Week : 13	28.8	19	117	0.9
0103_01	0 ppm	Week : 13	26.8	18	99	0.9
0104_01	0 ppm	Week : 13	19.4	20	62	0.8
0105_01	0 ppm	Week : 13	16	22	156	0.8
0106_01	0 ppm	Week : 13	26.8	16	86	0.9
0107_01	0 ppm	Week : 13	52.9	20	128	0.9
0108_01	0 ppm	Week : 13	14.9	20	122	0.7
0109_01	0 ppm	Week : 13	17.9	17	112	0.7
0110_01	0 ppm	Week : 13	19.4	16	84	0.8
0111_01	0 ppm	Day : 3	19.3	14	258	0.6
0111_01	0 ppm	Day : 23	13.7	14	143	0.8
0112_01	0 ppm	Day : 3	16.8	15	222	0.6
0112_01	0 ppm	Day : 23	13.1	14	86	0.7
0113_01	0 ppm	Day : 3	13.3	15	252	0.6
0113_01	0 ppm	Day : 23	12	16	222	0.8
0114_01	0 ppm	Day : 3	12.3	15	195	0.7
0114_01	0 ppm	Day : 23	15.3	14	114	0.9
0115_01	0 ppm	Day : 3	13.3	16	260	0.7
0115_01	0 ppm	Day : 23	19.3	16	456	0.8
0116_01	0 ppm	Day : 3	20.1	23	189	0.6
0116_01	0 ppm	Day : 23	13.6	12	101	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_01	0 ppm	Day : 3	31.6	22	147	0.7
0117_01	0 ppm	Day : 23	14.9	14	179	0.7
0118_01	0 ppm	Day : 3	23	21	237	0.6
0118_01	0 ppm	Day : 23	16.4	16	288	0.7
0119_01	0 ppm	Day : 3	12.7	20	140	0.6
0119_01	0 ppm	Day : 23	13.7	14	196	0.8
0120_01	0 ppm	Day : 3	16.3	22	140	0.6
0120_01	0 ppm	Day : 23	13.5	13	187	0.7
0301_01	500 ppm	Week : 13	16.4	23	114	0.8
0302_01	500 ppm	Week : 13	28.5	22	125	0.8
0303_01	500 ppm	Week : 13	25.2	23	83	0.8
0304_01	500 ppm	Week : 13	20.4	21	106	0.9
0305_01	500 ppm	Week : 13	14.7	18	87	0.8
0306_01	500 ppm	Week : 13	51.8	20	210	1
0307_01	500 ppm	Week : 13	23.8	17	85	0.7
0308_01	500 ppm	Week : 13	22.2	19	258	0.8
0309_01	500 ppm	Week : 13	16.5	18	88	0.8
0310_01	500 ppm	Week : 13	25.2	19	62	0.7
0311_01	500 ppm	Day : 3	16.6	16	271	0.6
0311_01	500 ppm	Day : 23	15.3	16	147	0.8
0312_01	500 ppm	Day : 3	18.4	11	207	0.6
0312_01	500 ppm	Day : 23	10.5	17	302	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
0312_01	500 ppm	Day : 23	10.5	17	302	0.9
0313_01	500 ppm	Day : 3	6.8	14	297	0.7
0313_01	500 ppm	Day : 23	13.6	13	107	0.7
0314_01	500 ppm	Day : 3	21	15	212	0.7
0314_01	500 ppm	Day : 23	15	15	133	0.8
0315_01	500 ppm	Day : 3	10.9	11	220	0.6
0315_01	500 ppm	Day : 23	18.8	16	117	0.9
0316_01	500 ppm	Day : 3	10.6	13	171	0.6
0316_01	500 ppm	Day : 23	15	16	164	0.8
0317_01	500 ppm	Day : 3	11.7	13	210	0.6
0317_01	500 ppm	Day : 23	71.7	14	224	0.9
0318_01	500 ppm	Day : 3	14.5	13	186	0.6
0318_01	500 ppm	Day : 23	15.9	15	331	0.8
0319_01	500 ppm	Day : 3	13.2	15	243	0.6
0319_01	500 ppm	Day : 23	26.7	13	224	0.9
0320_01	500 ppm	Day : 3	12.6	13	202	0.7
0320_01	500 ppm	Day : 23	14	11	207	0.9
0501_01	1000 ppm	Week : 13	36.7	25	159	0.9
0502_01	1000 ppm	Week : 13	28.5	23	59	0.9
0503_01	1000 ppm	Week : 13	14.1	20	74	0.8
0504_01	1000 ppm	Week : 13	43.5	22	115	0.9
0505_01	1000 ppm	Week : 13	26	20	96	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_01	1000 ppm	Week : 13	21.5	18	114	0.9
0507_01	1000 ppm	Week : 13	78.7	20	157	0.9
0508_01	1000 ppm	Week : 13	21.2	17	123	0.9
0509_01	1000 ppm	Week : 13	16	17	150	0.8
0510_01	1000 ppm	Week : 13	18.7	18	72	0.7
0511_01	1000 ppm	Day : 3	12.6	13	176	0.6
0511_01	1000 ppm	Day : 23	17.3	13	252	0.7
0512_01	1000 ppm	Day : 3	31.6	18	216	0.5
0512_01	1000 ppm	Day : 23	35.6	14	139	0.9
0513_01	1000 ppm	Day : 3	15	12	181	0.6
0513_01	1000 ppm	Day : 23	18.7	12	127	0.8
0514_01	1000 ppm	Day : 3	19.1	17	167	0.6
0514_01	1000 ppm	Day : 23	13.1	12	289	0.7
0515_01	1000 ppm	Day : 3	49.4	14	201	0.7
0515_01	1000 ppm	Day : 23	15.3	14	140	0.8
0516_01	1000 ppm	Day : 3	14.4	17	303	0.6
0516_01	1000 ppm	Day : 23	13.8	13	121	0.7
0517_01	1000 ppm	Day : 3	16.2	16	381	0.6
0517_01	1000 ppm	Day : 23	19.1	15	103	0.7
0518_01	1000 ppm	Day : 3	15	13	169	0.5
0518_01	1000 ppm	Day : 23	15.1	16	143	0.7
0519_01	1000 ppm	Day : 3	12.3	14	164	0.6

Experiment Number: 88070-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

## 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_01	1000 ppm	Day : 3	12.3	14	164	0.6
0519_01	1000 ppm	Day : 23	16	17	186	0.9
0520_01	1000 ppm	Day : 3	14.4	12	142	0.6
0520_01	1000 ppm	Day : 23	16.3	14	116	0.8
0701_01	2000 ppm	Week : 13	63.3	26	194	1
0702_01	2000 ppm	Week : 13	19.7	23	80	0.8
0703_01	2000 ppm	Week : 13	29	22	75	0.8
0704_01	2000 ppm	Week : 13	38	18	224	0.8
0705_01	2000 ppm	Week : 13	49.8	18	161	0.9
0706_01	2000 ppm	Week : 13	26.7	18	150	0.9
0707_01	2000 ppm	Week : 13	14.7	16	151	0.8
0708_01	2000 ppm	Week : 13	66.6	17	88	0.8
0709_01	2000 ppm	Week : 13	46.1	18	183	0.8
0710_01	2000 ppm	Week : 13	46.7	16	80	0.8
0711_01	2000 ppm	Day : 3	16.6	13	188	0.5
0711_01	2000 ppm	Day : 23	13.2	13	215	0.7
0712_01	2000 ppm	Day : 3	18.9	14	335	0.6
0712_01	2000 ppm	Day : 23	19	12	237	0.7
0713_01	2000 ppm	Day : 3	19	13	238	0.5
0713_01	2000 ppm	Day : 23	12.1	13	109	0.7
0714_01	2000 ppm	Day : 3	23.3	14	217	0.6
0714_01	2000 ppm	Day : 23	19.9	17	160	0.8

Experiment Number: 88070-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

## 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_01	2000 ppm	Day : 3	22.1	16	187	0.5
0715_01	2000 ppm	Day : 23	12.3	15	270	0.8
0716_01	2000 ppm	Day : 3	12.2	15	175	0.6
0716_01	2000 ppm	Day : 23	13.9	14	104	0.8
0717_01	2000 ppm	Day : 3	14.7	15	184	0.6
0717_01	2000 ppm	Day : 23	20	14	229	0.7
0718_01	2000 ppm	Day : 3	22.4	15	181	0.5
0718_01	2000 ppm	Day : 23	11.9	11	256	0.8
0719_01	2000 ppm	Day : 3	14.6	13	125	0.6
0719_01	2000 ppm	Day : 23	10.3	15	91	0.8
0720_01	2000 ppm	Day : 3	13.8	13	145	0.5
0720_01	2000 ppm	Day : 23	14.3	11	349	0.8
0901_01	4000 ppm	Week : 13	41.3	22	135	0.8
0902_01	4000 ppm	Week : 13	13.6	21	80	0.8
0903_01	4000 ppm	Week : 13	24.9	19	132	0.8
0904_01	4000 ppm	Week : 13	24.6	20	96	0.8
0905_01	4000 ppm	Week : 13	16	21	140	0.9
0906_01	4000 ppm	Week : 13	27	19	182	0.9
0907_01	4000 ppm	Week : 13	16.4	18	209	0.8
0908_01	4000 ppm	Week : 13	47.1	18	79	0.7
0909_01	4000 ppm	Week : 13	52.3	21	172	1
0910_01	4000 ppm	Week : 13	62.5	18	112	0.8

Experiment Number: 88070-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

## 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_01	4000 ppm	Week : 13	62.5	18	112	0.8
0911_01	4000 ppm	Day : 3	19.6	13	156	0.5
0911_01	4000 ppm	Day : 23	14.1	14	102	0.7
0912_01	4000 ppm	Day : 3	18.6	16	110	0.5
0912_01	4000 ppm	Day : 23	11.8	11	125	0.8
0913_01	4000 ppm	Day : 3	13.1	15	154	0.6
0913_01	4000 ppm	Day : 23	14.9	15	139	0.8
0914_01	4000 ppm	Day : 3	17.4	13	136	0.6
0914_01	4000 ppm	Day : 23	13.5	14	108	0.8
0915_01	4000 ppm	Day : 3	14.7	15	133	0.6
0915_01	4000 ppm	Day : 23	16.9	13	257	0.8
0916_01	4000 ppm	Day : 3	16.4	11	348	0.6
0916_01	4000 ppm	Day : 23	11.4	13	261	0.8
0917_01	4000 ppm	Day : 3	10.1	14	244	0.6
0917_01	4000 ppm	Day : 23	13.5	15	260	0.7
0918_01	4000 ppm	Day : 3	23.3	13	223	0.6
0918_01	4000 ppm	Day : 23	15.5	13	108	0.7
0919_01	4000 ppm	Day : 3	15	12	214	0.7
0919_01	4000 ppm	Day : 23	14.1	15	349	0.9
0920_01	4000 ppm	Day : 3	12.7	13	327	0.6
0920_01	4000 ppm	Day : 23	16.7	14	120	0.7
1101_01	8000 ppm	Week : 13	24.6	24	105	0.8

Experiment Number: 88070-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

## 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_01	8000 ppm	Week : 13	19.9	22	135	0.9
1103_01	8000 ppm	Week : 13	48.4	19	166	0.8
1104_01	8000 ppm	Week : 13	24.2	17	103	0.7
1105_01	8000 ppm	Week : 13	22.8	19	140	0.8
1106_01	8000 ppm	Week : 13	21.2	19	210	0.8
1107_01	8000 ppm	Week : 13	14.8	15	146	0.8
1108_01	8000 ppm	Week : 13	44.1	19	91	0.8
1109_01	8000 ppm	Week : 13	30.8	18	214	0.8
1110_01	8000 ppm	Week : 13	53	18	149	0.8
1111_01	8000 ppm	Day : 3	18.9	12	207	0.5
1111_01	8000 ppm	Day : 23	19.6	12	218	0.8
1112_01	8000 ppm	Day : 3	12.7	13	208	0.6
1112_01	8000 ppm	Day : 23	13.6	14	68	0.8
1113_01	8000 ppm	Day : 3	18	13	503	0.6
1113_01	8000 ppm	Day : 23	14.2	11	174	0.7
1114_01	8000 ppm	Day : 3	15.6	16	254	0.5
1114_01	8000 ppm	Day : 23	13.1	13	109	0.7
1115_01	8000 ppm	Day : 3	13.1	11	224	0.5
1115_01	8000 ppm	Day : 23	23.1	14	211	0.7
1116_01	8000 ppm	Day : 3	14.6	14	222	0.8
1116_01	8000 ppm	Day : 23	24.6	13	722	0.7
1117_01	8000 ppm	Day : 3	24.2	11	234	0.6

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:57

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_01	8000 ppm	Day : 3	24.2	11	234	0.6
1117_01	8000 ppm	Day : 23	17	13	234	0.8
1118_01	8000 ppm	Day : 3	16.3	11	474	0.6
1118_01	8000 ppm	Day : 23	14.8	13	210	0.9
1119_01	8000 ppm	Day : 3	16.4	14	169	0.6
1119_01	8000 ppm	Day : 23	12.7	14	184	0.7
1120_01	8000 ppm	Day : 3	11.6	14	271	0.5
1120_01	8000 ppm	Day : 23	12.9	14	77	0.7

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0101_01	0 ppm	Week : 13	2.1	161	7.7	16
0102_01	0 ppm	Week : 13	1.9	198	7	14
0103_01	0 ppm	Week : 13	2.1	159	7.3	13
0104_01	0 ppm	Week : 13	2.1	162	7.1	12
0105_01	0 ppm	Week : 13	2.7	153	7.9	13
0106_01	0 ppm	Week : 13	2.3	174	7.2	16
0107_01	0 ppm	Week : 13	2	176	7.2	16
0108_01	0 ppm	Week : 13	2.2	145	6.8	13
0109_01	0 ppm	Week : 13	2.74	147	7.4	15
0110_01	0 ppm	Week : 13	2.1	168	7.2	16
0111_01	0 ppm	Day : 3	0.6	122	6.1	17
0111_01	0 ppm	Day : 23	1.6	162	6.5	12
0112_01	0 ppm	Day : 3	0.5	120	6.4	15
0112_01	0 ppm	Day : 23	2	151	6.6	13
0113_01	0 ppm	Day : 3	0.5	127	6.2	15
0113_01	0 ppm	Day : 23	1.6	142	6.1	15
0114_01	0 ppm	Day : 3	0.8	121	6.6	17
0114_01	0 ppm	Day : 23	1.7	166	6.8	14
0115_01	0 ppm	Day : 3	0.5	140	6.2	18
0115_01	0 ppm	Day : 23	1.6	180	6.3	15
0116_01	0 ppm	Day : 3	0.8	106	5.9	17
0116_01	0 ppm	Day : 23	1.8	137	6.5	18

Experiment Number: 88070-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0117_01	0 ppm	Day : 3	0.9	144	6	17
0117_01	0 ppm	Day : 23	1.8	164	6.4	14
0118_01	0 ppm	Day : 3	1	114	6.2	14
0118_01	0 ppm	Day : 23	2	151	6.4	15
0119_01	0 ppm	Day : 3	0.9	126	5.7	18
0119_01	0 ppm	Day : 23	1.9	149	6.5	17
0120_01	0 ppm	Day : 3	0.7	121	5.7	16
0120_01	0 ppm	Day : 23	1.7	152	6.4	19
0301_01	500 ppm	Week : 13	2.1	162	7.4	15
0302_01	500 ppm	Week : 13	2.1	184	7.2	22
0303_01	500 ppm	Week : 13	2.2	241	7.1	14
0304_01	500 ppm	Week : 13	2.3	149	7.9	21
0305_01	500 ppm	Week : 13	2.5	146	7.5	13
0306_01	500 ppm	Week : 13	2.2	212	8.2	24
0307_01	500 ppm	Week : 13	2.1	151	7.2	16
0308_01	500 ppm	Week : 13	2.6	129	7.7	15
0309_01	500 ppm	Week : 13	2.1	145	7.6	15
0310_01	500 ppm	Week : 13	2.6	168	7.2	14
0311_01	500 ppm	Day : 3	0.3	123	6.3	17
0311_01	500 ppm	Day : 23	1.6	148	6.7	15
0312_01	500 ppm	Day : 3	0.7	130	6.2	16
0312_01	500 ppm	Day : 23	2.1	154	7	21



Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0313_01	500 ppm	Day : 3	1.3	189	6.7	18
0313_01	500 ppm	Day : 23	2	175	6.4	14
0314_01	500 ppm	Day : 3		131	6.1	16
0314_01	500 ppm	Day : 23	1.7	136	6.7	16
0315_01	500 ppm	Day : 3	0.2	122	6.1	18
0315_01	500 ppm	Day : 23	1.8	168	6.8	15
0316_01	500 ppm	Day : 3	0.8	128	6.2	12
0316_01	500 ppm	Day : 23	2.2	164	6.9	18
0317_01	500 ppm	Day : 3	0.5	138	5.8	15
0317_01	500 ppm	Day : 23	1.6	283	6.4	19
0318_01	500 ppm	Day : 3	0.3	127	6	14
0318_01	500 ppm	Day : 23	1.9	152	6.2	18
0319_01	500 ppm	Day : 3	0.4	139	6.1	14
0319_01	500 ppm	Day : 23	1.7	181	6.6	32
0320_01	500 ppm	Day : 3	0.3	136	5.9	15
0320_01	500 ppm	Day : 23	1.8	149	6.7	18
0501_01	1000 ppm	Week : 13	2.1	235	7.6	17
0502_01	1000 ppm	Week : 13	2.4	179	8	16
0503_01	1000 ppm	Week : 13	2	145	6.8	11
0504_01	1000 ppm	Week : 13	2.8	171	8.1	16
0505_01	1000 ppm	Week : 13	2.5	180	7.6	21
0506_01	1000 ppm	Week : 13	2.4	144	7.9	26

Experiment Number: 88070-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0507_01	1000 ppm	Week : 13	2.6	222	7.8	18
0508_01	1000 ppm	Week : 13	2.6	183	7.6	16
0509_01	1000 ppm	Week : 13	2.6	145	7.7	18
0510_01	1000 ppm	Week : 13	2.7	159	7	12
0511_01	1000 ppm	Day : 3	0.8	114	6.1	15
0511_01	1000 ppm	Day : 23	1.9	167	6.8	19
0512_01	1000 ppm	Day : 3	0.5	208	6.1	14
0512_01	1000 ppm	Day : 23	1.8	147	6.7	14
0513_01	1000 ppm	Day : 3	0.3	139	6.1	12
0513_01	1000 ppm	Day : 23	1.6	159	6.3	12
0514_01	1000 ppm	Day : 3	0.5	135	6.1	12
0514_01	1000 ppm	Day : 23	1.5	127	6.1	13
0515_01	1000 ppm	Day : 3	0.6	177	6.8	17
0515_01	1000 ppm	Day : 23	1.9	215	6.3	13
0516_01	1000 ppm	Day : 3	0.6	128	5.6	11
0516_01	1000 ppm	Day : 23	1.9	168	6.3	12
0517_01	1000 ppm	Day : 3	0.4	139	5.9	13
0517_01	1000 ppm	Day : 23	1.9	165	6.7	16
0518_01	1000 ppm	Day : 3	0.5	116	5.7	14
0518_01	1000 ppm	Day : 23	2	141	6.4	15
0519_01	1000 ppm	Day : 3	0.6	130	5.9	16
0519_01	1000 ppm	Day : 23	1.5	190	6.9	17

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0520_01	1000 ppm	Day : 3	0.2	119	5.8	17
0520_01	1000 ppm	Day : 23	1.7	178	6.7	13
0701_01	2000 ppm	Week : 13	2	216	7.1	14
0702_01	2000 ppm	Week : 13	2.1	165	7.6	26
0703_01	2000 ppm	Week : 13	2.3	164	7.4	23
0704_01	2000 ppm	Week : 13	2.6	159	7.3	15
0705_01	2000 ppm	Week : 13	2.5	192	7.3	12
0706_01	2000 ppm	Week : 13	2.4	152	7.5	15
0707_01	2000 ppm	Week : 13	2.4	140	7.4	14
0708_01	2000 ppm	Week : 13	1.9	184	7.4	15
0709_01	2000 ppm	Week : 13	2	164	7	17
0710_01	2000 ppm	Week : 13	2.3	167	7.3	18
0711_01	2000 ppm	Day : 3	0.3	114	5.9	15
0711_01	2000 ppm	Day : 23	1.5	140	6.1	14
0712_01	2000 ppm	Day : 3	0.4	129	6.1	13
0712_01	2000 ppm	Day : 23	1.5	128	6.4	21
0713_01	2000 ppm	Day : 3	0.4	136	5.8	14
0713_01	2000 ppm	Day : 23	1.6	162	6.2	13
0714_01	2000 ppm	Day : 3	0.5	120	6.1	15
0714_01	2000 ppm	Day : 23	1.7	127	6.3	17
0715_01	2000 ppm	Day : 3	0.3	127	5.8	14
0715_01	2000 ppm	Day : 23	1.7	133	6.6	13

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0716_01	2000 ppm	Day : 3	0.7	120	6.3	14
0716_01	2000 ppm	Day : 23	1.8	170	6.5	14
0717_01	2000 ppm	Day : 3	0.4	142	5.7	15
0717_01	2000 ppm	Day : 23	1.7	179	6.5	17
0718_01	2000 ppm	Day : 3	0.6	130	6.1	17
0718_01	2000 ppm	Day : 23	1.5	162	6.4	18
0719_01	2000 ppm	Day : 3	0.4	129	6	13
0719_01	2000 ppm	Day : 23	2	143	6.6	13
0720_01	2000 ppm	Day : 3	0.5	133	5.9	12
0720_01	2000 ppm	Day : 23	1.5	138	6.1	15
0901_01	4000 ppm	Week : 13	2.5	166	7.8	17
0902_01	4000 ppm	Week : 13	2	166	7.1	14
0903_01	4000 ppm	Week : 13	1.8	186	6.7	14
0904_01	4000 ppm	Week : 13	2.5	154	7.6	29
0905_01	4000 ppm	Week : 13	2.6	154	7.6	15
0906_01	4000 ppm	Week : 13	2.5	172	7.1	12
0907_01	4000 ppm	Week : 13	2.7	147	7.5	12
0908_01	4000 ppm	Week : 13	2.2	172	6.9	14
0909_01	4000 ppm	Week : 13	2.5	184	7.7	15
0910_01	4000 ppm	Week : 13	2.4	169	7.2	12
0911_01	4000 ppm	Day : 3	0.5	128	5.8	14
0911_01	4000 ppm	Day : 23	1.8	156	6.3	12

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:57

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
0912_01	4000 ppm	Day : 3	0.4	134	6.2	13
0912_01	4000 ppm	Day : 23	1.6	161	6.3	15
0913_01	4000 ppm	Day : 3	0.4	130	6	12
0913_01	4000 ppm	Day : 23	1.8	176	6.7	15
0914_01	4000 ppm	Day : 3	0.4	136	6.1	15
0914_01	4000 ppm	Day : 23	1.8	153	6.4	13
0915_01	4000 ppm	Day : 3	0.4	153	5.9	13
0915_01	4000 ppm	Day : 23	1.8	139	6.6	19
0916_01	4000 ppm	Day : 3	1.2	126	6	15
0916_01	4000 ppm	Day : 23	1.8	151	6.9	18
0917_01	4000 ppm	Day : 3	0.7	109	6	16
0917_01	4000 ppm	Day : 23	1.7	170	6.3	14
0918_01	4000 ppm	Day : 3	0.9	117	6.2	17
0918_01	4000 ppm	Day : 23	1.7	149	6.3	14
0919_01	4000 ppm	Day : 3	0.7	116	6.3	18
0919_01	4000 ppm	Day : 23	1.7	156	6.8	19
0920_01	4000 ppm	Day : 3	0.8	118	5.9	13
0920_01	4000 ppm	Day : 23	1.5	164	6.1	14
1101_01	8000 ppm	Week : 13	2.5	172	7.9	20
1102_01	8000 ppm	Week : 13	1.9	171	7	17
1103_01	8000 ppm	Week : 13	2.1	197	6.9	23
1104_01	8000 ppm	Week : 13	2.1	181	7.4	19

Experiment Number: 88070-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 17:37:58

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Globulin g per dL	Glucose mg per dL	Protein Total g per dL	SDH IU per L
1105_01	8000 ppm	Week : 13	2.4	173	7.6	15
1106_01	8000 ppm	Week : 13	2.6	147	7.4	16
1107_01	8000 ppm	Week : 13	2.1	148	7	14
1108_01	8000 ppm	Week : 13	2.3	190	7.2	11
1109_01	8000 ppm	Week : 13	2.2	156	7.2	14
1110_01	8000 ppm	Week : 13	2.4	156	7.4	16
1111_01	8000 ppm	Day : 3	1	104	6.3	16
1111_01	8000 ppm	Day : 23	1.7	165	6.2	15
1112_01	8000 ppm	Day : 3	0.9	112	6.4	17
1112_01	8000 ppm	Day : 23	2	138	6.5	15
1113_01	8000 ppm	Day : 3	0.5	126	5.9	8
1113_01	8000 ppm	Day : 23	1.7	174	6.4	17
1114_01	8000 ppm	Day : 3	0.4	113	6.3	14
1114_01	8000 ppm	Day : 23	1.9	158	6.5	16
1115_01	8000 ppm	Day : 3	0.7	121	6	14
1115_01	8000 ppm	Day : 23	2.1	182	6.7	18
1116_01	8000 ppm	Day : 3	0.9	128	6.1	15
1116_01	8000 ppm	Day : 23	1.9	161	6.8	16
1117_01	8000 ppm	Day : 3	0.7	150	6.1	14
1117_01	8000 ppm	Day : 23	1.8	169	6.7	16
1118_01	8000 ppm	Day : 3	0.8	129	6.1	11
1118_01	8000 ppm	Day : 23	1.7	188	6.8	17

Experiment Number: 88070-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 17:37:58

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	Glucose mg per dL	Protein Total g per dL	SDH IU per L
1119_01	8000 ppm	Day : 3	1.1	117	5.9	16
1119_01	8000 ppm	Day : 23	1.7	159	6.5	16
1120_01	8000 ppm	Day : 3	0.8	124	5.9	14
1120_01	8000 ppm	Day : 23	1.9	147	6.5	14

\*\* END OF REPORT \*\*