

**Experiment Number:** 99017-03

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

**P42: Clinical Chemistry Data**

**Date Report Requested:** 10/26/2014

**Time Report Requested:** 00:27:57

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

**Lab:** NA

**C Number:** C99017

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:57

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	Day : 93	4.4	1.9	234	86
0002_03	0 ppm	Day : 93	4.7	1.9	274	105
0003_03	0 ppm	Day : 93	4.7	1.9	236	71
0004_03	0 ppm	Day : 93	4.8	1.9	258	65
0005_03	0 ppm	Day : 93	4.8	2.0	275	101
0006_03	0 ppm	Day : 93	4.8	1.8	233	100
0007_03	0 ppm	Day : 93	4.7	1.9	220	86
0008_03	0 ppm	Day : 93	4.7	1.9	236	67
0009_03	0 ppm	Day : 93	4.8	1.9	272	101
0010_03	0 ppm	Day : 93	4.9	1.9	222	63
0011_03	0 ppm	Day : 3	4.4	2.9	649	65
0011_03	0 ppm	Day : 23	4.7	2.5	444	46
0012_03	0 ppm	Day : 3	4.6	3.1	693	73
0012_03	0 ppm	Day : 23	4.7	2.2	456	41
0013_03	0 ppm	Day : 3	4.6	2.7	661	54
0013_03	0 ppm	Day : 23	4.5	2.4	400	41
0014_03	0 ppm	Day : 3	4.2	2.6	771	63
0014_03	0 ppm	Day : 23	4.5	2.4	525	41
0015_03	0 ppm	Day : 3	4.6	2.7	646	64
0015_03	0 ppm	Day : 23	4.5	2.5	375	48
0016_03	0 ppm	Day : 3	4.4	2.6	692	66
0016_03	0 ppm	Day : 23	4.6	2.4	418	39

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:57

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0017_03	0 ppm	Day : 3	4.4	2.6	629	65
0017_03	0 ppm	Day : 23	4.8	2.0	451	53
0018_03	0 ppm	Day : 3	4.5	2.5	644	54
0018_03	0 ppm	Day : 23	4.5	2.5	465	42
0019_03	0 ppm	Day : 3	4.4	2.8	649	63
0019_03	0 ppm	Day : 23	4.6	2.2	440	41
0020_03	0 ppm	Day : 3	4.4	2.8	812	68
0020_03	0 ppm	Day : 23	4.4	2.6	491	41
0201_03	8 ppm	Day : 93	4.8	2.0	252	74
0202_03	8 ppm	Day : 93	4.8	1.8	261	95
0203_03	8 ppm	Day : 93	4.8	1.8	263	81
0204_03	8 ppm	Day : 93	4.8	1.8	269	78
0205_03	8 ppm	Day : 93	4.8	1.9	238	91
0206_03	8 ppm	Day : 93	4.6	1.9	253	81
0207_03	8 ppm	Day : 93	4.7	1.9	258	91
0208_03	8 ppm	Day : 93	4.7	2.0	266	100
0209_03	8 ppm	Day : 93	4.7	1.9	248	125
0210_03	8 ppm	Day : 93	4.7	2.0	232	60
0211_03	8 ppm	Day : 3	4.4	2.8	704	65
0211_03	8 ppm	Day : 23	4.5	2.3	384	37
0212_03	8 ppm	Day : 3	4.5	2.6	663	67
0212_03	8 ppm	Day : 23	4.5	2.4	384	39

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:57

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	8 ppm	Day : 3	4.4	2.9	666	63
0213_03	8 ppm	Day : 23	4.4	2.2	375	38
0214_03	8 ppm	Day : 3	4.5	2.8	633	56
0214_03	8 ppm	Day : 23	4.5	2.3	411	40
0215_03	8 ppm	Day : 3	4.5	2.6	738	59
0215_03	8 ppm	Day : 23	4.5	2.3	499	43
0216_03	8 ppm	Day : 3	4.4	3.1	659	65
0216_03	8 ppm	Day : 23	4.3	2.5	488	39
0217_03	8 ppm	Day : 3	4.6	2.7	657	62
0217_03	8 ppm	Day : 23	4.6	2.6	370	37
0218_03	8 ppm	Day : 3	4.5	2.6	658	62
0218_03	8 ppm	Day : 23	4.6	2.3	468	40
0219_03	8 ppm	Day : 3	4.4	2.8	727	67
0219_03	8 ppm	Day : 23	4.6	2.2	498	44
0220_03	8 ppm	Day : 3	4.7	2.8	675	72
0220_03	8 ppm	Day : 23	4.4	2.0	433	43
0401_03	16 ppm	Day : 93	4.8	1.9	253	58
0402_03	16 ppm	Day : 93	4.6	1.8	224	73
0403_03	16 ppm	Day : 93	4.7	1.7	267	76
0404_03	16 ppm	Day : 93	4.8	1.8	268	82
0405_03	16 ppm	Day : 93	4.7	2.0	254	106
0406_03	16 ppm	Day : 93	4.8	1.8	291	77

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:57

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	16 ppm	Day : 93	4.8	1.8	265	92
0408_03	16 ppm	Day : 93	4.8	1.9	255	133
0409_03	16 ppm	Day : 93	4.7	1.7	259	82
0410_03	16 ppm	Day : 93	4.8	1.9	274	101
0411_03	16 ppm	Day : 3	4.3	2.7	634	61
0411_03	16 ppm	Day : 23	4.5	2.3	459	44
0412_03	16 ppm	Day : 3	4.6	2.6	628	65
0412_03	16 ppm	Day : 23	4.3	2.2	436	39
0413_03	16 ppm	Day : 3	4.4	2.8	707	58
0413_03	16 ppm	Day : 23	4.3	2.3	450	33
0414_03	16 ppm	Day : 3	4.4	2.6	590	66
0414_03	16 ppm	Day : 23	4.5	2.4	432	40
0415_03	16 ppm	Day : 3	4.3	2.9	695	62
0415_03	16 ppm	Day : 23	4.5	2.3	430	39
0416_03	16 ppm	Day : 3	4.4	2.8	621	62
0416_03	16 ppm	Day : 23	4.4	2.3	428	37
0417_03	16 ppm	Day : 3	4.5	2.8	690	60
0417_03	16 ppm	Day : 23	4.3	2.4	405	35
0418_03	16 ppm	Day : 3	4.4	2.8	737	63
0418_03	16 ppm	Day : 23	4.3	2.0	515	40
0419_03	16 ppm	Day : 3	4.6	2.6	636	62
0419_03	16 ppm	Day : 23	4.5	2.5	419	36

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:57

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_03	16 ppm	Day : 3	4.6	2.7	630	61
0420_03	16 ppm	Day : 23	4.4	2.3	397	41
0601_03	32 ppm	Day : 93	4.7	2.0	239	69
0602_03	32 ppm	Day : 93	4.8	1.9	263	71
0603_03	32 ppm	Day : 93	4.7	1.9	232	94
0604_03	32 ppm	Day : 93	4.8	1.9	254	80
0605_03	32 ppm	Day : 93	4.9	2.0	262	94
0606_03	32 ppm	Day : 93	4.6	1.9	246	110
0607_03	32 ppm	Day : 93	4.8	2.1	259	72
0608_03	32 ppm	Day : 93	4.7	2.0	261	91
0609_03	32 ppm	Day : 93	4.7	1.9	245	77
0610_03	32 ppm	Day : 93	4.8	1.9	263	78
0611_03	32 ppm	Day : 3	4.3	2.9	608	58
0611_03	32 ppm	Day : 23	4.5	2.4	442	33
0612_03	32 ppm	Day : 3	4.3	2.4	632	56
0612_03	32 ppm	Day : 23	4.4	2.3	444	38
0613_03	32 ppm	Day : 3	4.4	2.8	623	60
0613_03	32 ppm	Day : 23	4.5	2.5	441	36
0614_03	32 ppm	Day : 3	4.2	2.8	831	61
0614_03	32 ppm	Day : 23	4.6	2.7	549	36
0615_03	32 ppm	Day : 3	4.4	2.8	675	61
0615_03	32 ppm	Day : 23	4.4	2.3	456	35

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

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Time Report Requested: 00:27:57

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	32 ppm	Day : 3	4.3	2.7	650	58
0616_03	32 ppm	Day : 23	4.5	2.3	437	37
0617_03	32 ppm	Day : 3	4.4	2.4	662	63
0617_03	32 ppm	Day : 23	4.4	2.3	435	33
0618_03	32 ppm	Day : 3	4.4	2.8	643	64
0618_03	32 ppm	Day : 23	4.3	2.4	402	36
0619_03	32 ppm	Day : 3	4.4	2.6	537	63
0619_03	32 ppm	Day : 23	4.4	2.3	355	35
0620_03	32 ppm	Day : 3	4.4	2.8	649	60
0620_03	32 ppm	Day : 23	4.5	2.4	462	38
0801_03	62 ppm	Day : 93	4.6	1.8	272	87
0802_03	62 ppm	Day : 93	4.7	1.8	250	89
0803_03	62 ppm	Day : 93	4.9	1.9	218	85
0804_03	62 ppm	Day : 93	4.6	1.8	247	72
0805_03	62 ppm	Day : 93	4.7	2.0	238	85
0806_03	62 ppm	Day : 93	4.6	1.7	234	66
0807_03	62 ppm	Day : 93	4.7	1.9	246	80
0808_03	62 ppm	Day : 93	4.7	1.9	259	78
0809_03	62 ppm	Day : 93	4.6	1.9	231	63
0810_03	62 ppm	Day : 93	4.8	1.8	266	92
0811_03	62 ppm	Day : 3	4.3	2.4	637	63
0811_03	62 ppm	Day : 23	4.2	2.1	425	40

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:57

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	62 ppm	Day : 3	4.9	4.1	578	61
0812_03	62 ppm	Day : 23	4.3	2.4	430	38
0813_03	62 ppm	Day : 3	4.4	2.9	654	61
0813_03	62 ppm	Day : 23	4.4	2.2	474	36
0814_03	62 ppm	Day : 3	4.5	2.8	661	61
0814_03	62 ppm	Day : 23	4.4	2.1	520	42
0815_03	62 ppm	Day : 3	4.5	2.6	683	63
0815_03	62 ppm	Day : 23	4.3	2.3	397	36
0816_03	62 ppm	Day : 3	4.5	2.8	683	68
0816_03	62 ppm	Day : 23	4.6	2.1	522	41
0817_03	62 ppm	Day : 3	4.5	3.0	664	62
0817_03	62 ppm	Day : 23	4.4	2.2	460	44
0818_03	62 ppm	Day : 3	4.3	2.9	698	57
0818_03	62 ppm	Day : 23	4.4	2.1	430	40
0819_03	62 ppm	Day : 3	4.5	3.0	643	58
0819_03	62 ppm	Day : 23	4.4	2.4	498	41
0820_03	62 ppm	Day : 3	4.5	2.8	667	55
0820_03	62 ppm	Day : 23	4.3	2.4	392	34
1001_03	125 ppm	Day : 93	4.6	1.9	260	57
1002_03	125 ppm	Day : 93	4.7	2.0	258	79
1003_03	125 ppm	Day : 93	4.6	1.9	274	97
1004_03	125 ppm	Day : 93	4.8	2.0	259	98



Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

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Time Report Requested: 00:27:57

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
1005_03	125 ppm	Day : 93	4.7	2.0	230	109
1006_03	125 ppm	Day : 93	4.6	2.0	257	79
1007_03	125 ppm	Day : 93	4.7	1.9	291	74
1008_03	125 ppm	Day : 93	4.6	1.9	271	66
1009_03	125 ppm	Day : 93	4.7	2.0	274	70
1010_03	125 ppm	Day : 93	4.4	2.0	237	80
1011_03	125 ppm	Day : 3	4.1	2.6	624	52
1011_03	125 ppm	Day : 23	4.4	2.3	455	39
1012_03	125 ppm	Day : 3	4.3	2.9	614	53
1012_03	125 ppm	Day : 23	4.5	2.4	482	40
1013_03	125 ppm	Day : 3	4.3	2.9	623	55
1013_03	125 ppm	Day : 23	4.5	2.5	439	35
1014_03	125 ppm	Day : 3	4.3	2.9	640	56
1014_03	125 ppm	Day : 23	4.4	2.2	523	38
1015_03	125 ppm	Day : 3	4.6	2.7	670	49
1015_03	125 ppm	Day : 23	4.7	2.4	467	36
1016_03	125 ppm	Day : 3	4.4	2.6	540	52
1016_03	125 ppm	Day : 23	4.4	2.2	444	36
1017_03	125 ppm	Day : 3	4.6	2.9	661	53
1017_03	125 ppm	Day : 23	4.4	2.2	445	44
1018_03	125 ppm	Day : 3	4.4	2.8	610	55
1018_03	125 ppm	Day : 23	4.5	2.0	489	41

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:57

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_03	125 ppm	Day : 3	4.5	3.0	620	59
1019_03	125 ppm	Day : 23	4.5	2.4	471	36
1020_03	125 ppm	Day : 3	4.5	2.6	598	53
1020_03	125 ppm	Day : 23	4.5	2.3	437	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	Day : 93	3.5	16	332	0.5
0002_03	0 ppm	Day : 93	4.4	15	187	0.5
0003_03	0 ppm	Day : 93	3.0	14	355	0.5
0004_03	0 ppm	Day : 93	3.1	16	208	0.6
0005_03	0 ppm	Day : 93	3.2	15	211	0.6
0006_03	0 ppm	Day : 93	4.5	15	285	0.6
0007_03	0 ppm	Day : 93	3.5	14	221	0.6
0008_03	0 ppm	Day : 93	3.5	14	252	0.6
0009_03	0 ppm	Day : 93	3.5	16	136	0.6
0010_03	0 ppm	Day : 93	2.8	15	177	0.6
0011_03	0 ppm	Day : 3	6.6	12	360	0.3
0011_03	0 ppm	Day : 23	3.7	14	477	0.5
0012_03	0 ppm	Day : 3	6.1	9	325	0.2
0012_03	0 ppm	Day : 23	6.0	10	224	0.5
0013_03	0 ppm	Day : 3	6.2	13	420	0.3
0013_03	0 ppm	Day : 23	3.7	10	333	0.5
0014_03	0 ppm	Day : 3	5.2	8	403	0.2
0014_03	0 ppm	Day : 23	4.7	9	195	0.5
0015_03	0 ppm	Day : 3	6.3	13	863	0.3
0015_03	0 ppm	Day : 23	9.4	11	263	0.5
0016_03	0 ppm	Day : 3	5.0	8	466	0.2
0016_03	0 ppm	Day : 23	6.6	9	302	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
0017_03	0 ppm	Day : 3	3.9	9	264	0.2
0017_03	0 ppm	Day : 23	9.8	11	323	0.5
0018_03	0 ppm	Day : 3	3.8	10	568	0.3
0018_03	0 ppm	Day : 23	4.3	11	587	0.5
0019_03	0 ppm	Day : 3	3.2	9	480	0.2
0019_03	0 ppm	Day : 23	3.9	10	267	0.5
0020_03	0 ppm	Day : 3	8.0	7	313	0.3
0020_03	0 ppm	Day : 23	7.2	10	384	0.5
0201_03	8 ppm	Day : 93	2.7	15	162	0.7
0202_03	8 ppm	Day : 93	9.9	13	142	0.6
0203_03	8 ppm	Day : 93	3.1	15	203	0.6
0204_03	8 ppm	Day : 93	3.1	18	197	0.5
0205_03	8 ppm	Day : 93	3.9	16	201	0.6
0206_03	8 ppm	Day : 93	3.3	15	270	0.5
0207_03	8 ppm	Day : 93	3.0	15	207	0.6
0208_03	8 ppm	Day : 93	3.8	14	181	0.5
0209_03	8 ppm	Day : 93	3.7	16	131	0.5
0210_03	8 ppm	Day : 93	3.3	13	146	0.6
0211_03	8 ppm	Day : 3	5.3	8	237	0.2
0211_03	8 ppm	Day : 23	4.1	9	360	0.5
0212_03	8 ppm	Day : 3	7.1	9	317	0.2
0212_03	8 ppm	Day : 23	5.0	12	369	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	8 ppm	Day : 23	5.0	12	369	0.6
0213_03	8 ppm	Day : 3	12.0	8	408	0.3
0213_03	8 ppm	Day : 23	5.1	11	197	0.5
0214_03	8 ppm	Day : 3	4.0	9	445	0.2
0214_03	8 ppm	Day : 23	3.7	9	212	0.5
0215_03	8 ppm	Day : 3	21.5	9	419	0.3
0215_03	8 ppm	Day : 23	4.1	8	271	0.5
0216_03	8 ppm	Day : 3	6.5	8	268	0.2
0216_03	8 ppm	Day : 23	7.6	8	425	0.5
0217_03	8 ppm	Day : 3	7.1	8	434	0.2
0217_03	8 ppm	Day : 23	4.4	9	390	0.5
0218_03	8 ppm	Day : 3	5.7	10	360	0.2
0218_03	8 ppm	Day : 23	5.0	10	242	0.6
0219_03	8 ppm	Day : 3	6.4	9	374	0.3
0219_03	8 ppm	Day : 23	16.8	10	244	0.5
0220_03	8 ppm	Day : 3	4.9	9	342	0.3
0220_03	8 ppm	Day : 23	5.6	10	469	0.5
0401_03	16 ppm	Day : 93	3.3	14	141	0.4
0402_03	16 ppm	Day : 93	2.5	15	289	0.6
0403_03	16 ppm	Day : 93	2.8	14	121	0.5
0404_03	16 ppm	Day : 93	3.5	16	147	0.6
0405_03	16 ppm	Day : 93	3.3	15	246	0.6

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**MALE**


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Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0406_03	16 ppm	Day : 93	3.4	15	209	0.6
0407_03	16 ppm	Day : 93	3.1	15	211	0.6
0408_03	16 ppm	Day : 93	3.0	16	148	0.5
0409_03	16 ppm	Day : 93	2.6	16	135	0.6
0410_03	16 ppm	Day : 93	3.1	18	198	0.6
0411_03	16 ppm	Day : 3	7.6	9	326	0.2
0411_03	16 ppm	Day : 23	3.5	11	282	0.6
0412_03	16 ppm	Day : 3	8.6	11	362	0.3
0412_03	16 ppm	Day : 23	3.7	11	338	0.5
0413_03	16 ppm	Day : 3	5.6	10	418	0.3
0413_03	16 ppm	Day : 23	4.3	10	273	0.6
0414_03	16 ppm	Day : 3	9.0	12	776	0.3
0414_03	16 ppm	Day : 23	5.2	10	346	0.5
0415_03	16 ppm	Day : 3	5.8	9	650	0.2
0415_03	16 ppm	Day : 23	2.8	10	220	0.5
0416_03	16 ppm	Day : 3	4.4	12	318	0.2
0416_03	16 ppm	Day : 23	3.0	12	500	0.5
0417_03	16 ppm	Day : 3	3.6	9	592	0.3
0417_03	16 ppm	Day : 23	2.4	10	559	0.5
0418_03	16 ppm	Day : 3	6.1	7	1033	0.2
0418_03	16 ppm	Day : 23	3.7	10	400	0.5
0419_03	16 ppm	Day : 3	9.3	12	605	0.4

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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
0419_03	16 ppm	Day : 3	9.3	12	605	0.4
0419_03	16 ppm	Day : 23	4.4	9	301	0.5
0420_03	16 ppm	Day : 3	4.2	12	379	0.3
0420_03	16 ppm	Day : 23	4.4	10	298	0.5
0601_03	32 ppm	Day : 93	2.9	15	120	0.5
0602_03	32 ppm	Day : 93	3.1	15	249	0.7
0603_03	32 ppm	Day : 93	2.9	16	172	0.6
0604_03	32 ppm	Day : 93	3.4	15	144	0.6
0605_03	32 ppm	Day : 93	3.4	18	104	0.5
0606_03	32 ppm	Day : 93	3.1	16	309	0.6
0607_03	32 ppm	Day : 93	3.5	15	234	0.6
0608_03	32 ppm	Day : 93	3.1	15	186	0.6
0609_03	32 ppm	Day : 93	3.2	15	144	0.6
0610_03	32 ppm	Day : 93	3.2	17	144	0.6
0611_03	32 ppm	Day : 3	6.4	9	276	0.2
0611_03	32 ppm	Day : 23	3.8	8	232	0.6
0612_03	32 ppm	Day : 3	5.3	8	477	0.2
0612_03	32 ppm	Day : 23	5.1	7	310	0.5
0613_03	32 ppm	Day : 3	18.2	8	649	0.2
0613_03	32 ppm	Day : 23	3.4	9	293	0.5
0614_03	32 ppm	Day : 3	9.9	7	253	0.3
0614_03	32 ppm	Day : 23	4.5	11	233	0.6

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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_03	32 ppm	Day : 3	5.3	9	332	0.3
0615_03	32 ppm	Day : 23	3.6	9	263	0.6
0616_03	32 ppm	Day : 3	3.5	9	400	0.2
0616_03	32 ppm	Day : 23	3.7	11	255	0.5
0617_03	32 ppm	Day : 3	9.3	8	429	0.3
0617_03	32 ppm	Day : 23	3.3	9	225	0.5
0618_03	32 ppm	Day : 3	4.7	8	351	0.2
0618_03	32 ppm	Day : 23	11.6	9	439	0.6
0619_03	32 ppm	Day : 3	5.8	8	514	0.2
0619_03	32 ppm	Day : 23	3.9	9	313	0.6
0620_03	32 ppm	Day : 3	4.2	8	330	0.3
0620_03	32 ppm	Day : 23	5.5	10	299	0.6
0801_03	62 ppm	Day : 93	3.4	15	142	0.6
0802_03	62 ppm	Day : 93	2.7	16	124	0.6
0803_03	62 ppm	Day : 93	2.7	13	125	0.6
0804_03	62 ppm	Day : 93	3.1	15	133	0.5
0805_03	62 ppm	Day : 93	3.0	16	174	0.6
0806_03	62 ppm	Day : 93	2.5	16	211	0.5
0807_03	62 ppm	Day : 93	3.2	17	177	0.5
0808_03	62 ppm	Day : 93	2.7	16	142	0.5
0809_03	62 ppm	Day : 93	4.1	15	258	0.5
0810_03	62 ppm	Day : 93	3.2	18	218	0.3



## 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	62 ppm	Day : 93	3.2	18	218	0.3
0811_03	62 ppm	Day : 3	16.5	9	412	0.2
0811_03	62 ppm	Day : 23	3.7	9	530	0.5
0812_03	62 ppm	Day : 3	8.8	12	336	0.2
0812_03	62 ppm	Day : 23	4.4	10	311	0.5
0813_03	62 ppm	Day : 3	5.4	9	603	0.3
0813_03	62 ppm	Day : 23	3.7	10	257	0.6
0814_03	62 ppm	Day : 3	5.3	10	328	0.2
0814_03	62 ppm	Day : 23	2.4	10	294	0.5
0815_03	62 ppm	Day : 3	4.8	10	454	0.2
0815_03	62 ppm	Day : 23	4.1	11	309	0.6
0816_03	62 ppm	Day : 3	6.6	7	471	0.2
0816_03	62 ppm	Day : 23	4.8	10	273	0.5
0817_03	62 ppm	Day : 3	7.0	8	524	0.2
0817_03	62 ppm	Day : 23	5.1	9	310	0.6
0818_03	62 ppm	Day : 3	3.9	9	560	0.2
0818_03	62 ppm	Day : 23	2.7	11	372	0.5
0819_03	62 ppm	Day : 3	6.5	8	329	0.3
0819_03	62 ppm	Day : 23	3.2	8	515	0.5
0820_03	62 ppm	Day : 3	4.3	8	533	0.2
0820_03	62 ppm	Day : 23	3.5	11	220	0.6
1001_03	125 ppm	Day : 93	3.2	16	166	0.5

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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
1002_03	125 ppm	Day : 93	3.0	16	167	0.6
1003_03	125 ppm	Day : 93	6.5	19	289	0.5
1004_03	125 ppm	Day : 93	4.3	16	180	0.6
1005_03	125 ppm	Day : 93	2.5	15	129	0.6
1006_03	125 ppm	Day : 93	3.3	20	158	0.5
1007_03	125 ppm	Day : 93	2.7	17	147	0.5
1008_03	125 ppm	Day : 93	3.1	17	175	0.6
1009_03	125 ppm	Day : 93	3.6	17	115	0.4
1010_03	125 ppm	Day : 93	2.3	17	157	0.6
1011_03	125 ppm	Day : 3	5.9	8	391	0.2
1011_03	125 ppm	Day : 23	4.1	10	452	0.6
1012_03	125 ppm	Day : 3	5.9	9	453	0.2
1012_03	125 ppm	Day : 23	4.3	10	341	0.5
1013_03	125 ppm	Day : 3	6.0	8	408	0.2
1013_03	125 ppm	Day : 23	3.2	11	275	0.6
1014_03	125 ppm	Day : 3	5.4	9	439	0.2
1014_03	125 ppm	Day : 23	4.9	10	605	0.5
1015_03	125 ppm	Day : 3	5.9	11	584	0.3
1015_03	125 ppm	Day : 23	3.2	12	318	0.6
1016_03	125 ppm	Day : 3	6.1	10	455	0.2
1016_03	125 ppm	Day : 23	5.1	10	349	0.5
1017_03	125 ppm	Day : 3	3.9	9	410	0.2

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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_03	125 ppm	Day : 3	3.9	9	410	0.2
1017_03	125 ppm	Day : 23	6.6	9	307	0.6
1018_03	125 ppm	Day : 3	6.6	10	447	0.2
1018_03	125 ppm	Day : 23	2.7	8	350	0.6
1019_03	125 ppm	Day : 3	22.9	12	660	0.3
1019_03	125 ppm	Day : 23	2.6	11	370	0.5
1020_03	125 ppm	Day : 3	3.5	8	261	0.3
1020_03	125 ppm	Day : 23	4.0	10	330	0.5

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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	Day : 93	2.3	6.7	16.3
0002_03	0 ppm	Day : 93	2.5	7.2	23.1
0003_03	0 ppm	Day : 93	2.5	7.2	15.8
0004_03	0 ppm	Day : 93	2.5	7.3	19.5
0005_03	0 ppm	Day : 93	2.4	7.2	21.3
0006_03	0 ppm	Day : 93	2.6	7.4	20.4
0007_03	0 ppm	Day : 93	2.5	7.2	20.0
0008_03	0 ppm	Day : 93	2.5	7.2	17.5
0009_03	0 ppm	Day : 93	2.5	7.3	21.3
0010_03	0 ppm	Day : 93	2.6	7.5	20.5
0011_03	0 ppm	Day : 3	1.5	5.9	12.1
0011_03	0 ppm	Day : 23	1.9	6.6	13.3
0012_03	0 ppm	Day : 3	1.5	6.1	15.7
0012_03	0 ppm	Day : 23	2.1	6.8	16.7
0013_03	0 ppm	Day : 3	1.7	6.3	13.2
0013_03	0 ppm	Day : 23	1.9	6.4	16.3
0014_03	0 ppm	Day : 3	1.6	5.8	17.2
0014_03	0 ppm	Day : 23	1.9	6.4	14.0
0015_03	0 ppm	Day : 3	1.7	6.3	8.7
0015_03	0 ppm	Day : 23	1.8	6.3	19.9
0016_03	0 ppm	Day : 3	1.7	6.1	17.5
0016_03	0 ppm	Day : 23	1.9	6.5	19.8

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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	1.7	6.1	16.1
0017_03	0 ppm	Day : 23	2.4	7.2	19.8
0018_03	0 ppm	Day : 3	1.8	6.3	16.3
0018_03	0 ppm	Day : 23	1.8	6.3	7.7
0019_03	0 ppm	Day : 3	1.6	6.0	13.2
0019_03	0 ppm	Day : 23	2.1	6.7	21.0
0020_03	0 ppm	Day : 3	1.6	6.0	19.9
0020_03	0 ppm	Day : 23	1.7	6.1	12.4
0201_03	8 ppm	Day : 93	2.4	7.2	20.8
0202_03	8 ppm	Day : 93	2.6	7.4	23.6
0203_03	8 ppm	Day : 93	2.6	7.4	21.4
0204_03	8 ppm	Day : 93	2.7	7.5	23.7
0205_03	8 ppm	Day : 93	2.5	7.3	22.1
0206_03	8 ppm	Day : 93	2.4	7.0	18.9
0207_03	8 ppm	Day : 93	2.5	7.2	21.2
0208_03	8 ppm	Day : 93	2.4	7.1	20.9
0209_03	8 ppm	Day : 93	2.5	7.2	24.1
0210_03	8 ppm	Day : 93	2.4	7.1	16.3
0211_03	8 ppm	Day : 3	1.6	6.0	14.7
0211_03	8 ppm	Day : 23	2.0	6.5	15.4
0212_03	8 ppm	Day : 3	1.7	6.2	17.0
0212_03	8 ppm	Day : 23	1.9	6.4	15.1

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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	8 ppm	Day : 3	1.5	5.9	12.9
0213_03	8 ppm	Day : 23	2.0	6.4	14.0
0214_03	8 ppm	Day : 3	1.6	6.1	16.1
0214_03	8 ppm	Day : 23	2.0	6.5	20.0
0215_03	8 ppm	Day : 3	1.7	6.2	12.1
0215_03	8 ppm	Day : 23	2.0	6.5	18.1
0216_03	8 ppm	Day : 3	1.4	5.8	15.1
0216_03	8 ppm	Day : 23	1.7	6.0	14.0
0217_03	8 ppm	Day : 3	1.7	6.3	13.5
0217_03	8 ppm	Day : 23	1.8	6.4	18.5
0218_03	8 ppm	Day : 3	1.7	6.2	15.9
0218_03	8 ppm	Day : 23	2.0	6.6	21.1
0219_03	8 ppm	Day : 3	1.6	6.0	17.7
0219_03	8 ppm	Day : 23	2.1	6.7	19.1
0220_03	8 ppm	Day : 3	1.7	6.4	18.5
0220_03	8 ppm	Day : 23	2.2	6.6	14.9
0401_03	16 ppm	Day : 93	2.5	7.3	17.0
0402_03	16 ppm	Day : 93	2.5	7.1	17.1
0403_03	16 ppm	Day : 93	2.7	7.4	19.3
0404_03	16 ppm	Day : 93	2.6	7.4	20.9
0405_03	16 ppm	Day : 93	2.4	7.1	22.7
0406_03	16 ppm	Day : 93	2.7	7.5	23.6

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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	16 ppm	Day : 93	2.7	7.5	20.0
0408_03	16 ppm	Day : 93	2.5	7.3	29.7
0409_03	16 ppm	Day : 93	2.7	7.4	22.0
0410_03	16 ppm	Day : 93	2.5	7.3	25.3
0411_03	16 ppm	Day : 3	1.6	5.9	16.0
0411_03	16 ppm	Day : 23	2.0	6.5	14.7
0412_03	16 ppm	Day : 3	1.8	6.4	17.0
0412_03	16 ppm	Day : 23	2.0	6.3	15.7
0413_03	16 ppm	Day : 3	1.6	6.0	11.7
0413_03	16 ppm	Day : 23	1.9	6.2	14.9
0414_03	16 ppm	Day : 3	1.7	6.1	10.2
0414_03	16 ppm	Day : 23	1.9	6.4	17.5
0415_03	16 ppm	Day : 3	1.5	5.8	13.5
0415_03	16 ppm	Day : 23	2.0	6.5	17.2
0416_03	16 ppm	Day : 3	1.6	6.0	15.5
0416_03	16 ppm	Day : 23	1.9	6.3	9.4
0417_03	16 ppm	Day : 3	1.6	6.1	13.1
0417_03	16 ppm	Day : 23	1.8	6.1	10.2
0418_03	16 ppm	Day : 3	1.6	6.0	16.0
0418_03	16 ppm	Day : 23	2.1	6.4	12.3
0419_03	16 ppm	Day : 3	1.8	6.4	17.9
0419_03	16 ppm	Day : 23	1.8	6.3	17.1

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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	16 ppm	Day : 3	1.7	6.3	19.0
0420_03	16 ppm	Day : 23	1.9	6.3	16.3
0601_03	32 ppm	Day : 93	2.4	7.1	18.1
0602_03	32 ppm	Day : 93	2.5	7.3	19.1
0603_03	32 ppm	Day : 93	2.5	7.2	21.7
0604_03	32 ppm	Day : 93	2.5	7.3	19.9
0605_03	32 ppm	Day : 93	2.5	7.4	21.7
0606_03	32 ppm	Day : 93	2.4	7.0	22.5
0607_03	32 ppm	Day : 93	2.3	7.1	19.6
0608_03	32 ppm	Day : 93	2.4	7.1	20.3
0609_03	32 ppm	Day : 93	2.5	7.2	17.7
0610_03	32 ppm	Day : 93	2.5	7.3	18.8
0611_03	32 ppm	Day : 3	1.5	5.8	14.4
0611_03	32 ppm	Day : 23	1.9	6.4	17.6
0612_03	32 ppm	Day : 3	1.8	6.1	15.5
0612_03	32 ppm	Day : 23	1.9	6.3	15.1
0613_03	32 ppm	Day : 3	1.6	6.0	12.9
0613_03	32 ppm	Day : 23	1.8	6.3	17.0
0614_03	32 ppm	Day : 3	1.5	5.7	15.5
0614_03	32 ppm	Day : 23	1.7	6.3	17.5
0615_03	32 ppm	Day : 3	1.6	6.0	14.8
0615_03	32 ppm	Day : 23	1.9	6.3	16.5



Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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	32 ppm	Day : 3	1.6	5.9	16.0
0616_03	32 ppm	Day : 23	2.0	6.5	16.8
0617_03	32 ppm	Day : 3	1.8	6.2	13.6
0617_03	32 ppm	Day : 23	1.9	6.3	15.6
0618_03	32 ppm	Day : 3	1.6	6.0	16.1
0618_03	32 ppm	Day : 23	1.8	6.1	10.6
0619_03	32 ppm	Day : 3	1.7	6.1	14.2
0619_03	32 ppm	Day : 23	1.9	6.3	21.1
0620_03	32 ppm	Day : 3	1.6	6.0	14.2
0620_03	32 ppm	Day : 23	1.9	6.4	20.5
0801_03	62 ppm	Day : 93	2.5	7.1	20.5
0802_03	62 ppm	Day : 93	2.6	7.3	20.9
0803_03	62 ppm	Day : 93	2.6	7.5	21.6
0804_03	62 ppm	Day : 93	2.5	7.1	20.0
0805_03	62 ppm	Day : 93	2.4	7.1	18.8
0806_03	62 ppm	Day : 93	2.7	7.3	20.5
0807_03	62 ppm	Day : 93	2.5	7.2	21.5
0808_03	62 ppm	Day : 93	2.5	7.2	21.3
0809_03	62 ppm	Day : 93	2.4	7.0	15.6
0810_03	62 ppm	Day : 93	2.6	7.4	21.7
0811_03	62 ppm	Day : 3	1.8	6.1	14.7
0811_03	62 ppm	Day : 23	2.0	6.2	10.2

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:58

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	62 ppm	Day : 3	1.2	6.1	16.5
0812_03	62 ppm	Day : 23	1.8	6.1	14.5
0813_03	62 ppm	Day : 3	1.5	5.9	12.7
0813_03	62 ppm	Day : 23	2.0	6.4	16.2
0814_03	62 ppm	Day : 3	1.6	6.1	18.2
0814_03	62 ppm	Day : 23	2.1	6.5	16.8
0815_03	62 ppm	Day : 3	1.7	6.2	17.4
0815_03	62 ppm	Day : 23	1.9	6.2	16.5
0816_03	62 ppm	Day : 3	1.6	6.1	19.1
0816_03	62 ppm	Day : 23	2.2	6.8	15.9
0817_03	62 ppm	Day : 3	1.5	6.0	13.7
0817_03	62 ppm	Day : 23	2.0	6.4	18.6
0818_03	62 ppm	Day : 3	1.5	5.8	17.4
0818_03	62 ppm	Day : 23	2.1	6.5	14.3
0819_03	62 ppm	Day : 3	1.5	6.0	18.9
0819_03	62 ppm	Day : 23	1.8	6.2	12.9
0820_03	62 ppm	Day : 3	1.6	6.1	15.9
0820_03	62 ppm	Day : 23	1.8	6.1	16.8
1001_03	125 ppm	Day : 93	2.4	7.0	17.5
1002_03	125 ppm	Day : 93	2.4	7.1	20.8
1003_03	125 ppm	Day : 93	2.4	7.0	22.1
1004_03	125 ppm	Day : 93	2.4	7.2	22.5

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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
1005_03	125 ppm	Day : 93	2.4	7.1	21.7
1006_03	125 ppm	Day : 93	2.3	6.9	20.2
1007_03	125 ppm	Day : 93	2.5	7.2	21.6
1008_03	125 ppm	Day : 93	2.4	7.0	19.2
1009_03	125 ppm	Day : 93	2.4	7.1	17.7
1010_03	125 ppm	Day : 93	2.2	6.6	18.5
1011_03	125 ppm	Day : 3	1.6	5.7	14.3
1011_03	125 ppm	Day : 23	1.9	6.3	17.0
1012_03	125 ppm	Day : 3	1.5	5.8	13.4
1012_03	125 ppm	Day : 23	1.9	6.4	15.3
1013_03	125 ppm	Day : 3	1.5	5.8	13.9
1013_03	125 ppm	Day : 23	1.8	6.3	18.4
1014_03	125 ppm	Day : 3	1.5	5.8	15.8
1014_03	125 ppm	Day : 23	2.0	6.4	10.3
1015_03	125 ppm	Day : 3	1.7	6.3	11.8
1015_03	125 ppm	Day : 23	2.0	6.7	14.0
1016_03	125 ppm	Day : 3	1.7	6.1	11.7
1016_03	125 ppm	Day : 23	2.0	6.4	15.5
1017_03	125 ppm	Day : 3	1.6	6.2	13.4
1017_03	125 ppm	Day : 23	2.0	6.4	20.7
1018_03	125 ppm	Day : 3	1.6	6.0	14.3
1018_03	125 ppm	Day : 23	2.3	6.8	16.4

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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
1019_03	125 ppm	Day : 3	1.5	6.0	8.2
1019_03	125 ppm	Day : 23	1.9	6.4	13.9
1020_03	125 ppm	Day : 3	1.7	6.2	13.3
1020_03	125 ppm	Day : 23	2.0	6.5	15.4

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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	Day : 93	5.2	2.4	229	74
0102_03	0 ppm	Day : 93	5.6	2.2	221	58
0103_03	0 ppm	Day : 93	5.2	2.3	213	59
0104_03	0 ppm	Day : 93	4.9	2.5	285	55
0105_03	0 ppm	Day : 93	5.2	2.5	202	61
0106_03	0 ppm	Day : 93	5.3	2.5	209	50
0107_03	0 ppm	Day : 93	5.4	2.6	143	52
0108_03	0 ppm	Day : 93	4.9	2.6	173	81
0109_03	0 ppm	Day : 93	5.4	2.5	200	62
0110_03	0 ppm	Day : 93	5.2	2.7	152	96
0111_03	0 ppm	Day : 3	4.3	2.7	557	61
0111_03	0 ppm	Day : 23	4.9	2.6	329	40
0112_03	0 ppm	Day : 3	4.4	2.9	565	67
0112_03	0 ppm	Day : 23	4.5	2.5	319	39
0113_03	0 ppm	Day : 3	4.6	2.7	572	65
0113_03	0 ppm	Day : 23	4.7	2.8	317	41
0114_03	0 ppm	Day : 3	4.4	2.8	536	54
0114_03	0 ppm	Day : 23	4.7	2.4	259	30
0115_03	0 ppm	Day : 3	4.8	2.7	613	61
0115_03	0 ppm	Day : 23	4.5	2.4	326	36
0116_03	0 ppm	Day : 3	4.6	2.7	572	64
0116_03	0 ppm	Day : 23	4.5	2.4	296	30

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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_03	0 ppm	Day : 3	4.5	2.8	507	56
0117_03	0 ppm	Day : 23	4.6	2.7	289	34
0118_03	0 ppm	Day : 3	4.5	2.8	563	55
0118_03	0 ppm	Day : 23	4.6	2.4	280	33
0119_03	0 ppm	Day : 3	ND	ND	ND	69
0119_03	0 ppm	Day : 23	ND	ND	ND	ND
0120_03	0 ppm	Day : 3	4.5	2.6	556	56
0120_03	0 ppm	Day : 23	4.8	2.7	301	34
0301_03	8 ppm	Day : 93	5.3	2.4	221	85
0302_03	8 ppm	Day : 93	5.3	2.5	181	111
0303_03	8 ppm	Day : 93	5.3	2.4	237	58
0304_03	8 ppm	Day : 93	4.9	2.5	167	73
0305_03	8 ppm	Day : 93	5.3	2.4	177	67
0306_03	8 ppm	Day : 93	5.3	2.3	194	77
0307_03	8 ppm	Day : 93	5.3	2.4	192	65
0308_03	8 ppm	Day : 93	5.1	2.4	157	53
0309_03	8 ppm	Day : 93	5.1	2.4	188	49
0310_03	8 ppm	Day : 93	5.4	2.3	173	52
0311_03	8 ppm	Day : 3	4.3	2.9	558	56
0311_03	8 ppm	Day : 23	4.5	2.5	294	29
0312_03	8 ppm	Day : 3	4.4	2.9	587	54
0312_03	8 ppm	Day : 23	4.6	2.7	328	32

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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	8 ppm	Day : 3	4.4	2.6	540	72
0313_03	8 ppm	Day : 23	4.5	2.5	299	34
0314_03	8 ppm	Day : 3	4.3	2.9	554	61
0314_03	8 ppm	Day : 23	4.3	2.7	309	31
0315_03	8 ppm	Day : 3	4.5	2.8	581	67
0315_03	8 ppm	Day : 23	4.6	2.6	333	36
0316_03	8 ppm	Day : 3	4.5	2.6	556	49
0316_03	8 ppm	Day : 23	4.8	2.5	318	36
0317_03	8 ppm	Day : 3	4.7	2.8	602	53
0317_03	8 ppm	Day : 23	4.5	2.6	317	33
0318_03	8 ppm	Day : 3	4.4	2.6	546	52
0318_03	8 ppm	Day : 23	4.4	2.6	312	36
0319_03	8 ppm	Day : 3	4.6	2.9	575	56
0319_03	8 ppm	Day : 23	4.8	2.7	332	37
0320_03	8 ppm	Day : 3	4.5	2.6	545	54
0320_03	8 ppm	Day : 23	4.6	2.4	268	37
0501_03	16 ppm	Day : 93	5.6	2.3	219	50
0502_03	16 ppm	Day : 93	5.1	2.4	216	41
0503_03	16 ppm	Day : 93	5.3	2.3	190	67
0504_03	16 ppm	Day : 93	5.2	2.4	197	67
0505_03	16 ppm	Day : 93	5.5	2.4	195	61
0506_03	16 ppm	Day : 93	5.2	2.4	202	66

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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_03	16 ppm	Day : 93	5.4	2.3	222	48
0508_03	16 ppm	Day : 93	5.4	2.5	197	63
0509_03	16 ppm	Day : 93	5.1	2.6	203	62
0510_03	16 ppm	Day : 93	5.2	2.4	187	64
0511_03	16 ppm	Day : 3	4.3	2.9	555	43
0511_03	16 ppm	Day : 23	4.8	2.7	294	28
0512_03	16 ppm	Day : 3	4.4	2.8	561	53
0512_03	16 ppm	Day : 23	4.7	2.4	313	43
0513_03	16 ppm	Day : 3	4.4	2.8	566	55
0513_03	16 ppm	Day : 23	4.3	2.5	298	32
0514_03	16 ppm	Day : 3	4.3	2.7	508	51
0514_03	16 ppm	Day : 23	4.6	2.4	289	34
0515_03	16 ppm	Day : 3	4.4	2.8	528	55
0515_03	16 ppm	Day : 23	4.6	2.6	311	30
0516_03	16 ppm	Day : 3	4.3	2.7	579	59
0516_03	16 ppm	Day : 23	4.8	2.5	305	33
0517_03	16 ppm	Day : 3	4.5	2.5	524	55
0517_03	16 ppm	Day : 23	4.6	2.4	342	37
0518_03	16 ppm	Day : 3	4.6	2.7	544	54
0518_03	16 ppm	Day : 23	4.6	2.7	299	38
0519_03	16 ppm	Day : 3	4.4	2.9	575	58
0519_03	16 ppm	Day : 23	4.7	2.8	304	34



Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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_03	16 ppm	Day : 3	4.5	3.0	580	57
0520_03	16 ppm	Day : 23	4.7	2.5	362	33
0701_03	32 ppm	Day : 93	5.3	2.5	234	74
0702_03	32 ppm	Day : 93	5.3	2.3	175	82
0703_03	32 ppm	Day : 93	5.4	2.3	172	74
0704_03	32 ppm	Day : 93	5.4	2.5	192	90
0705_03	32 ppm	Day : 93	5.0	2.4	192	80
0706_03	32 ppm	Day : 93	5.1	2.4	167	68
0707_03	32 ppm	Day : 93	5.1	2.4	213	62
0708_03	32 ppm	Day : 93	5.5	2.5	187	62
0709_03	32 ppm	Day : 93	5.2	2.4	208	53
0710_03	32 ppm	Day : 93	5.2	2.5	183	88
0711_03	32 ppm	Day : 3	4.4	2.9	569	46
0711_03	32 ppm	Day : 23	4.5	2.8	322	28
0712_03	32 ppm	Day : 3	5.0	2.5	523	38
0712_03	32 ppm	Day : 23	ND	ND	ND	ND
0713_03	32 ppm	Day : 3	4.4	2.8	559	58
0713_03	32 ppm	Day : 23	4.6	2.7	315	32
0714_03	32 ppm	Day : 3	4.3	2.7	504	45
0714_03	32 ppm	Day : 23	4.6	2.6	265	31
0715_03	32 ppm	Day : 3	4.4	2.8	464	43
0715_03	32 ppm	Day : 23	4.4	2.4	296	34

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0716_03	32 ppm	Day : 3	4.6	2.7	538	55
0716_03	32 ppm	Day : 23	4.5	2.4	314	29
0717_03	32 ppm	Day : 3	4.3	2.9	585	68
0717_03	32 ppm	Day : 23	4.6	2.6	354	30
0718_03	32 ppm	Day : 3	4.2	2.5	528	52
0718_03	32 ppm	Day : 23	4.6	2.3	283	39
0719_03	32 ppm	Day : 3	4.5	3.0	558	55
0719_03	32 ppm	Day : 23	4.4	2.6	298	38
0720_03	32 ppm	Day : 3	4.4	2.8	541	54
0720_03	32 ppm	Day : 23	4.5	2.6	295	28
0901_03	62 ppm	Day : 93	5.4	2.3	185	68
0902_03	62 ppm	Day : 93	5.1	2.4	217	50
0903_03	62 ppm	Day : 93	5.4	2.5	218	90
0904_03	62 ppm	Day : 93	5.6	2.2	216	56
0905_03	62 ppm	Day : 93	5.1	2.3	222	102
0906_03	62 ppm	Day : 93	5.3	2.4	219	68
0907_03	62 ppm	Day : 93	5.3	2.3	225	52
0908_03	62 ppm	Day : 93	4.9	2.6	212	62
0909_03	62 ppm	Day : 93	5.2	2.5	188	64
0910_03	62 ppm	Day : 93	5.3	2.4	204	69
0911_03	62 ppm	Day : 3	4.2	2.8	590	51
0911_03	62 ppm	Day : 23	4.8	2.5	322	30

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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	62 ppm	Day : 3	4.2	3.0	548	50
0912_03	62 ppm	Day : 23	4.6	2.6	350	39
0913_03	62 ppm	Day : 3	4.4	2.8	502	47
0913_03	62 ppm	Day : 23	4.8	2.5	298	35
0914_03	62 ppm	Day : 3	4.3	2.7	485	48
0914_03	62 ppm	Day : 23	4.6	2.6	289	32
0915_03	62 ppm	Day : 3	4.3	2.7	480	49
0915_03	62 ppm	Day : 23	4.8	2.4	296	34
0916_03	62 ppm	Day : 3	4.5	3.0	483	52
0916_03	62 ppm	Day : 23	4.8	2.5	337	32
0917_03	62 ppm	Day : 3	4.2	2.5	505	50
0917_03	62 ppm	Day : 23	4.6	2.7	302	31
0918_03	62 ppm	Day : 3	4.5	2.8	524	55
0918_03	62 ppm	Day : 23	4.7	2.5	311	36
0919_03	62 ppm	Day : 3	4.4	2.9	547	61
0919_03	62 ppm	Day : 23	4.7	2.6	325	40
0920_03	62 ppm	Day : 3	4.3	2.5	553	59
0920_03	62 ppm	Day : 23	4.6	2.7	315	38
1101_03	125 ppm	Day : 93	5.1	2.4	222	82
1102_03	125 ppm	Day : 93	4.9	2.6	212	55
1103_03	125 ppm	Day : 93	5.1	2.4	205	51
1104_03	125 ppm	Day : 93	5.0	2.5	193	93

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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	125 ppm	Day : 93	4.9	2.5	179	57
1106_03	125 ppm	Day : 93	4.8	2.4	200	42
1107_03	125 ppm	Day : 93	5.2	2.5	215	75
1108_03	125 ppm	Day : 93	4.8	2.4	230	65
1109_03	125 ppm	Day : 93	5.0	2.4	167	48
1110_03	125 ppm	Day : 93	5.0	2.5	198	78
1111_03	125 ppm	Day : 3	4.4	2.6	504	48
1111_03	125 ppm	Day : 23	4.7	2.5	321	34
1112_03	125 ppm	Day : 3	4.2	2.6	497	54
1112_03	125 ppm	Day : 23	4.7	2.5	322	34
1113_03	125 ppm	Day : 3	4.3	2.7	544	53
1113_03	125 ppm	Day : 23	4.3	2.5	331	34
1114_03	125 ppm	Day : 3	4.3	2.7	483	53
1114_03	125 ppm	Day : 23	4.4	2.8	300	34
1115_03	125 ppm	Day : 3	4.5	2.6	565	47
1115_03	125 ppm	Day : 23	4.8	2.4	326	30
1116_03	125 ppm	Day : 3	4.4	2.8	601	51
1116_03	125 ppm	Day : 23	4.9	2.5	354	34
1117_03	125 ppm	Day : 3	4.6	2.7	510	48
1117_03	125 ppm	Day : 23	4.8	2.4	295	42
1118_03	125 ppm	Day : 3	4.3	2.4	519	54
1118_03	125 ppm	Day : 23	4.5	2.6	343	41

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:27:59

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	125 ppm	Day : 3	4.4	2.8	554	54
1119_03	125 ppm	Day : 23	4.4	2.6	338	29
1120_03	125 ppm	Day : 3	4.4	2.9	528	56
1120_03	125 ppm	Day : 23	4.7	2.5	336	31

## 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	Day : 93	5.9	17	222	0.6
0102_03	0 ppm	Day : 93	5.1	14	270	0.7
0103_03	0 ppm	Day : 93	5.5	17	225	0.7
0104_03	0 ppm	Day : 93	8.7	16	284	0.7
0105_03	0 ppm	Day : 93	7.9	13	216	0.7
0106_03	0 ppm	Day : 93	12.3	16	133	0.7
0107_03	0 ppm	Day : 93	5.4	15	229	0.7
0108_03	0 ppm	Day : 93	8.0	13	267	0.6
0109_03	0 ppm	Day : 93	6.3	15	129	0.7
0110_03	0 ppm	Day : 93	5.0	16	229	0.6
0111_03	0 ppm	Day : 3	20.8	11	748	0.2
0111_03	0 ppm	Day : 23	6.9	12	238	0.6
0112_03	0 ppm	Day : 3	6.3	11	319	0.2
0112_03	0 ppm	Day : 23	14.2	13	488	0.6
0113_03	0 ppm	Day : 3	7.3	12	729	0.3
0113_03	0 ppm	Day : 23	7.2	13	370	0.6
0114_03	0 ppm	Day : 3	3.3	11	479	0.3
0114_03	0 ppm	Day : 23	4.2	15	312	0.6
0115_03	0 ppm	Day : 3	13.8	12	812	0.3
0115_03	0 ppm	Day : 23	4.1	12	440	0.5
0116_03	0 ppm	Day : 3	5.2	14	808	0.3
0116_03	0 ppm	Day : 23	11.1	12	433	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
0117_03	0 ppm	Day : 3	8.1	14	631	0.3
0117_03	0 ppm	Day : 23	5.4	14	338	0.5
0118_03	0 ppm	Day : 3	4.0	11	347	0.3
0118_03	0 ppm	Day : 23	6.2	13	351	0.7
0119_03	0 ppm	Day : 3	ND	11	ND	ND
0119_03	0 ppm	Day : 23	ND	ND	ND	ND
0120_03	0 ppm	Day : 3	2.7	10	350	0.1
0120_03	0 ppm	Day : 23	5.2	16	288	0.6
0301_03	8 ppm	Day : 93	6.5	16	442	0.6
0302_03	8 ppm	Day : 93	8.1	16	231	0.7
0303_03	8 ppm	Day : 93	8.1	13	139	0.6
0304_03	8 ppm	Day : 93	11.5	15	343	0.6
0305_03	8 ppm	Day : 93	5.2	14	240	0.6
0306_03	8 ppm	Day : 93	10.9	16	319	0.6
0307_03	8 ppm	Day : 93	5.2	17	175	0.6
0308_03	8 ppm	Day : 93	10.8	15	375	0.7
0309_03	8 ppm	Day : 93	5.5	14	281	0.6
0310_03	8 ppm	Day : 93	6.1	17	346	0.7
0311_03	8 ppm	Day : 3	5.1	10	319	0.3
0311_03	8 ppm	Day : 23	4.6	14	310	0.6
0312_03	8 ppm	Day : 3	6.1	13	666	0.3
0312_03	8 ppm	Day : 23	4.1	14	346	0.6

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

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
0312_03	8 ppm	Day : 23	4.1	14	346	0.6
0313_03	8 ppm	Day : 3	24.3	13	2798	0.3
0313_03	8 ppm	Day : 23	4.9	9	523	0.6
0314_03	8 ppm	Day : 3	6.2	10	531	0.2
0314_03	8 ppm	Day : 23	3.6	11	604	0.5
0315_03	8 ppm	Day : 3	6.5	13	632	0.3
0315_03	8 ppm	Day : 23	5.4	11	274	0.6
0316_03	8 ppm	Day : 3	3.8	11	497	0.3
0316_03	8 ppm	Day : 23	6.9	11	463	0.6
0317_03	8 ppm	Day : 3	9.1	16	714	0.3
0317_03	8 ppm	Day : 23	10.3	11	604	0.6
0318_03	8 ppm	Day : 3	4.4	10	523	0.2
0318_03	8 ppm	Day : 23	4.4	10	530	0.6
0319_03	8 ppm	Day : 3	7.3	12	332	0.3
0319_03	8 ppm	Day : 23	6.4	12	260	0.6
0320_03	8 ppm	Day : 3	4.2	11	368	0.3
0320_03	8 ppm	Day : 23	7.0	10	279	0.6
0501_03	16 ppm	Day : 93	5.7	16	189	0.7
0502_03	16 ppm	Day : 93	4.9	15	229	0.6
0503_03	16 ppm	Day : 93	5.1	17	240	0.7
0504_03	16 ppm	Day : 93	10.5	15	349	0.7
0505_03	16 ppm	Day : 93	5.1	16	179	0.6



## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L
0506_03	16 ppm	Day : 93	5.5	16	598	0.6
0507_03	16 ppm	Day : 93	4.8	16	220	0.6
0508_03	16 ppm	Day : 93	5.6	15	405	0.7
0509_03	16 ppm	Day : 93	8.1	15	406	0.6
0510_03	16 ppm	Day : 93	5.9	13	178	0.6
0511_03	16 ppm	Day : 3	5.7	10	400	0.2
0511_03	16 ppm	Day : 23	5.2	14	456	0.6
0512_03	16 ppm	Day : 3	5.0	9	633	0.2
0512_03	16 ppm	Day : 23	10.9	13	535	0.6
0513_03	16 ppm	Day : 3	3.9	10	328	0.3
0513_03	16 ppm	Day : 23	5.9	11	339	0.6
0514_03	16 ppm	Day : 3	4.4	8	426	0.2
0514_03	16 ppm	Day : 23	13.2	15	607	0.7
0515_03	16 ppm	Day : 3	11.5	11	877	0.3
0515_03	16 ppm	Day : 23	5.0	15	385	0.6
0516_03	16 ppm	Day : 3	4.7	9	862	0.2
0516_03	16 ppm	Day : 23	6.8	11	374	0.6
0517_03	16 ppm	Day : 3	6.8	9	536	0.2
0517_03	16 ppm	Day : 23	4.9	10	295	0.6
0518_03	16 ppm	Day : 3	4.9	11	396	0.3
0518_03	16 ppm	Day : 23	5.1	13	573	0.6
0519_03	16 ppm	Day : 3	3.6	11	290	0.2

## 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	16 ppm	Day : 3	3.6	11	290	0.2
0519_03	16 ppm	Day : 23	5.0	14	294	0.6
0520_03	16 ppm	Day : 3	4.9	13	457	0.3
0520_03	16 ppm	Day : 23	6.0	15	518	0.6
0701_03	32 ppm	Day : 93	5.3	17	305	0.7
0702_03	32 ppm	Day : 93	3.7	16	191	0.6
0703_03	32 ppm	Day : 93	4.0	15	182	0.7
0704_03	32 ppm	Day : 93	6.6	14	115	0.6
0705_03	32 ppm	Day : 93	5.8	15	260	0.6
0706_03	32 ppm	Day : 93	5.1	15	299	0.6
0707_03	32 ppm	Day : 93	4.3	14	209	0.6
0708_03	32 ppm	Day : 93	6.4	15	334	0.6
0709_03	32 ppm	Day : 93	4.6	14	92	0.7
0710_03	32 ppm	Day : 93	4.3	16	293	0.7
0711_03	32 ppm	Day : 3	4.1	10	306	0.2
0711_03	32 ppm	Day : 23	5.0	12	314	0.5
0712_03	32 ppm	Day : 3	15.1	18	521	0.3
0712_03	32 ppm	Day : 23	ND	ND	ND	ND
0713_03	32 ppm	Day : 3	7.0	11	856	0.3
0713_03	32 ppm	Day : 23	6.1	12	355	0.6
0714_03	32 ppm	Day : 3	5.1	11	463	0.3
0714_03	32 ppm	Day : 23	6.1	10	193	0.6

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

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_03	32 ppm	Day : 3	4.8	12	556	0.2
0715_03	32 ppm	Day : 23	4.6	10	222	0.6
0716_03	32 ppm	Day : 3	5.2	10	409	0.2
0716_03	32 ppm	Day : 23	2.9	13	368	0.6
0717_03	32 ppm	Day : 3	6.9	10	423	0.2
0717_03	32 ppm	Day : 23	4.9	12	373	0.6
0718_03	32 ppm	Day : 3	3.9	9	544	0.3
0718_03	32 ppm	Day : 23	3.6	12	237	0.6
0719_03	32 ppm	Day : 3	4.2	12	410	0.2
0719_03	32 ppm	Day : 23	14.2	12	961	0.6
0720_03	32 ppm	Day : 3	4.5	10	595	0.3
0720_03	32 ppm	Day : 23	5.9	11	279	0.5
0901_03	62 ppm	Day : 93	5.1	15	222	0.7
0902_03	62 ppm	Day : 93	4.4	15	287	0.6
0903_03	62 ppm	Day : 93	6.7	17	270	0.7
0904_03	62 ppm	Day : 93	4.8	17	171	0.7
0905_03	62 ppm	Day : 93	6.6	16	198	0.6
0906_03	62 ppm	Day : 93	9.6	16	328	0.7
0907_03	62 ppm	Day : 93	3.8	17	209	0.7
0908_03	62 ppm	Day : 93	10.1	15	336	0.6
0909_03	62 ppm	Day : 93	5.0	15	168	0.7
0910_03	62 ppm	Day : 93	5.4	18	169	0.6

Experiment Number: 99017-03

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 00:28:00

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_03	62 ppm	Day : 93	5.4	18	169	0.6
0911_03	62 ppm	Day : 3	5.2	8	366	0.2
0911_03	62 ppm	Day : 23	4.5	12	254	0.5
0912_03	62 ppm	Day : 3	4.3	7	527	0.2
0912_03	62 ppm	Day : 23	10.2	12	740	0.4
0913_03	62 ppm	Day : 3	4.5	8	419	0.2
0913_03	62 ppm	Day : 23	6.4	10	296	0.6
0914_03	62 ppm	Day : 3	4.4	10	549	0.2
0914_03	62 ppm	Day : 23	4.4	13	301	0.6
0915_03	62 ppm	Day : 3	6.7	8	304	0.3
0915_03	62 ppm	Day : 23	9.2	13	503	0.7
0916_03	62 ppm	Day : 3	4.8	15	332	0.3
0916_03	62 ppm	Day : 23	6.0	14	257	0.6
0917_03	62 ppm	Day : 3	4.8	9	820	0.2
0917_03	62 ppm	Day : 23	5.5	12	281	0.6
0918_03	62 ppm	Day : 3	6.7	9	1173	0.2
0918_03	62 ppm	Day : 23	4.7	11	336	0.6
0919_03	62 ppm	Day : 3	4.4	10	379	0.2
0919_03	62 ppm	Day : 23	5.5	12	517	0.6
0920_03	62 ppm	Day : 3	4.9	10	714	0.2
0920_03	62 ppm	Day : 23	5.1	14	352	0.5
1101_03	125 ppm	Day : 93	6.6	16	367	0.7

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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
1102_03	125 ppm	Day : 93	5.6	17	236	0.7
1103_03	125 ppm	Day : 93	4.8	16	273	0.6
1104_03	125 ppm	Day : 93	19.1	16	440	0.6
1105_03	125 ppm	Day : 93	4.4	16	325	0.7
1106_03	125 ppm	Day : 93	4.8	18	398	0.7
1107_03	125 ppm	Day : 93	5.2	18	367	0.7
1108_03	125 ppm	Day : 93	6.0	16	170	0.6
1109_03	125 ppm	Day : 93	15.7	14	489	0.7
1110_03	125 ppm	Day : 93	5.7	15	269	0.6
1111_03	125 ppm	Day : 3	4.4	12	313	0.2
1111_03	125 ppm	Day : 23	3.4	11	238	0.6
1112_03	125 ppm	Day : 3	5.7	11	470	0.2
1112_03	125 ppm	Day : 23	4.0	11	349	0.5
1113_03	125 ppm	Day : 3	5.1	10	719	0.3
1113_03	125 ppm	Day : 23	10.3	11	253	0.5
1114_03	125 ppm	Day : 3	5.8	12	344	0.2
1114_03	125 ppm	Day : 23	4.9	12	390	0.5
1115_03	125 ppm	Day : 3	4.3	14	582	0.2
1115_03	125 ppm	Day : 23	4.4	13	363	0.6
1116_03	125 ppm	Day : 3	4.9	10	710	0.3
1116_03	125 ppm	Day : 23	4.0	13	298	0.6
1117_03	125 ppm	Day : 3	3.9	13	588	0.2

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

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	125 ppm	Day : 3	3.9	13	588	0.2
1117_03	125 ppm	Day : 23	18.1	12	529	0.5
1118_03	125 ppm	Day : 3	10.4	9	745	0.2
1118_03	125 ppm	Day : 23	7.0	11	566	0.6
1119_03	125 ppm	Day : 3	5.9	10	606	0.2
1119_03	125 ppm	Day : 23	4.4	12	458	0.6
1120_03	125 ppm	Day : 3	4.4	13	598	0.2
1120_03	125 ppm	Day : 23	5.3	11	457	0.6

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

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	Day : 93	2.2	7.4	19.9
0102_03	0 ppm	Day : 93	2.5	8.1	24.1
0103_03	0 ppm	Day : 93	2.3	7.5	21.1
0104_03	0 ppm	Day : 93	2.0	6.9	12.1
0105_03	0 ppm	Day : 93	2.1	7.3	23.8
0106_03	0 ppm	Day : 93	2.1	7.4	16.0
0107_03	0 ppm	Day : 93	2.1	7.5	16.2
0108_03	0 ppm	Day : 93	1.9	6.8	16.3
0109_03	0 ppm	Day : 93	2.2	7.6	17.4
0110_03	0 ppm	Day : 93	1.9	7.1	19.9
0111_03	0 ppm	Day : 3	1.6	5.9	8.4
0111_03	0 ppm	Day : 23	1.9	6.8	21.4
0112_03	0 ppm	Day : 3	1.5	5.9	16.6
0112_03	0 ppm	Day : 23	1.8	6.3	16.1
0113_03	0 ppm	Day : 3	1.7	6.3	12.9
0113_03	0 ppm	Day : 23	1.7	6.4	19.3
0114_03	0 ppm	Day : 3	1.6	6.0	14.1
0114_03	0 ppm	Day : 23	2.0	6.7	13.3
0115_03	0 ppm	Day : 3	1.8	6.6	19.0
0115_03	0 ppm	Day : 23	1.9	6.4	18.2
0116_03	0 ppm	Day : 3	1.7	6.3	15.3
0116_03	0 ppm	Day : 23	1.9	6.4	13.0

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

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	1.6	6.1	8.1
0117_03	0 ppm	Day : 23	1.7	6.3	19.5
0118_03	0 ppm	Day : 3	1.6	6.1	15.3
0118_03	0 ppm	Day : 23	1.9	6.5	17.2
0119_03	0 ppm	Day : 3	ND	ND	12.2
0119_03	0 ppm	Day : 23	ND	ND	ND
0120_03	0 ppm	Day : 3	1.7	6.2	17.2
0120_03	0 ppm	Day : 23	1.8	6.6	14.5
0301_03	8 ppm	Day : 93	2.2	7.5	22.8
0302_03	8 ppm	Day : 93	2.1	7.4	24.0
0303_03	8 ppm	Day : 93	2.2	7.5	16.9
0304_03	8 ppm	Day : 93	2.0	6.9	17.8
0305_03	8 ppm	Day : 93	2.2	7.5	18.8
0306_03	8 ppm	Day : 93	2.3	7.6	18.1
0307_03	8 ppm	Day : 93	2.2	7.5	16.9
0308_03	8 ppm	Day : 93	2.1	7.2	17.2
0309_03	8 ppm	Day : 93	2.1	7.2	19.6
0310_03	8 ppm	Day : 93	2.3	7.7	18.4
0311_03	8 ppm	Day : 3	1.5	5.8	15.0
0311_03	8 ppm	Day : 23	1.8	6.3	15.0
0312_03	8 ppm	Day : 3	1.5	5.9	14.0
0312_03	8 ppm	Day : 23	1.7	6.3	14.0



Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

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	8 ppm	Day : 3	1.7	6.1	10.9
0313_03	8 ppm	Day : 23	1.8	6.3	19.8
0314_03	8 ppm	Day : 3	1.5	5.8	14.5
0314_03	8 ppm	Day : 23	1.6	5.9	12.9
0315_03	8 ppm	Day : 3	1.6	6.1	13.7
0315_03	8 ppm	Day : 23	1.8	6.4	18.6
0316_03	8 ppm	Day : 3	1.7	6.2	17.4
0316_03	8 ppm	Day : 23	1.9	6.7	15.8
0317_03	8 ppm	Day : 3	1.7	6.4	24.6
0317_03	8 ppm	Day : 23	1.7	6.2	14.9
0318_03	8 ppm	Day : 3	1.7	6.1	16.2
0318_03	8 ppm	Day : 23	1.7	6.1	10.1
0319_03	8 ppm	Day : 3	1.6	6.2	16.9
0319_03	8 ppm	Day : 23	1.8	6.6	21.7
0320_03	8 ppm	Day : 3	1.7	6.2	16.7
0320_03	8 ppm	Day : 23	1.9	6.5	17.5
0501_03	16 ppm	Day : 93	2.4	8.0	17.9
0502_03	16 ppm	Day : 93	2.1	7.2	16.1
0503_03	16 ppm	Day : 93	2.3	7.6	20.8
0504_03	16 ppm	Day : 93	2.2	7.4	15.6
0505_03	16 ppm	Day : 93	2.3	7.8	16.2
0506_03	16 ppm	Day : 93	2.2	7.4	12.5

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0507_03	16 ppm	Day : 93	2.3	7.7	19.6
0508_03	16 ppm	Day : 93	2.2	7.6	18.9
0509_03	16 ppm	Day : 93	2.0	7.1	16.2
0510_03	16 ppm	Day : 93	2.2	7.4	22.9
0511_03	16 ppm	Day : 3	1.5	5.8	11.5
0511_03	16 ppm	Day : 23	1.8	6.6	13.5
0512_03	16 ppm	Day : 3	1.6	6.0	14.4
0512_03	16 ppm	Day : 23	2.0	6.7	13.8
0513_03	16 ppm	Day : 3	1.6	6.0	17.4
0513_03	16 ppm	Day : 23	1.7	6.0	14.2
0514_03	16 ppm	Day : 3	1.6	5.9	15.5
0514_03	16 ppm	Day : 23	1.9	6.5	13.3
0515_03	16 ppm	Day : 3	1.6	6.0	7.9
0515_03	16 ppm	Day : 23	1.8	6.4	13.6
0516_03	16 ppm	Day : 3	1.6	5.9	11.5
0516_03	16 ppm	Day : 23	1.9	6.7	16.5
0517_03	16 ppm	Day : 3	1.8	6.3	13.3
0517_03	16 ppm	Day : 23	1.9	6.5	20.4
0518_03	16 ppm	Day : 3	1.7	6.3	17.1
0518_03	16 ppm	Day : 23	1.7	6.3	18.7
0519_03	16 ppm	Day : 3	1.5	5.9	16.3
0519_03	16 ppm	Day : 23	1.7	6.4	19.5

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Globulin g per dL	Protein Total g per dL	SDH IU per L
0520_03	16 ppm	Day : 3	1.5	6.0	14.5
0520_03	16 ppm	Day : 23	1.9	6.6	21.0
0701_03	32 ppm	Day : 93	2.1	7.4	23.7
0702_03	32 ppm	Day : 93	2.3	7.6	20.8
0703_03	32 ppm	Day : 93	2.3	7.7	21.8
0704_03	32 ppm	Day : 93	2.2	7.6	21.5
0705_03	32 ppm	Day : 93	2.1	7.1	22.2
0706_03	32 ppm	Day : 93	2.1	7.2	19.4
0707_03	32 ppm	Day : 93	2.1	7.2	18.1
0708_03	32 ppm	Day : 93	2.2	7.7	20.9
0709_03	32 ppm	Day : 93	2.2	7.4	15.1
0710_03	32 ppm	Day : 93	2.1	7.3	19.7
0711_03	32 ppm	Day : 3	1.5	5.9	13.8
0711_03	32 ppm	Day : 23	1.6	6.1	14.3
0712_03	32 ppm	Day : 3	2.0	7.0	20.0
0712_03	32 ppm	Day : 23	ND	ND	ND
0713_03	32 ppm	Day : 3	1.6	6.0	11.7
0713_03	32 ppm	Day : 23	1.7	6.3	15.5
0714_03	32 ppm	Day : 3	1.6	5.9	11.7
0714_03	32 ppm	Day : 23	1.8	6.4	22.0
0715_03	32 ppm	Day : 3	1.6	6.0	8.3
0715_03	32 ppm	Day : 23	1.8	6.2	17.6

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

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	32 ppm	Day : 3	1.7	6.3	15.7
0716_03	32 ppm	Day : 23	1.9	6.4	11.8
0717_03	32 ppm	Day : 3	1.5	5.8	16.7
0717_03	32 ppm	Day : 23	1.8	6.4	15.7
0718_03	32 ppm	Day : 3	1.7	5.9	12.2
0718_03	32 ppm	Day : 23	2.0	6.6	23.0
0719_03	32 ppm	Day : 3	1.5	6.0	14.6
0719_03	32 ppm	Day : 23	1.7	6.1	11.2
0720_03	32 ppm	Day : 3	1.6	6.0	13.8
0720_03	32 ppm	Day : 23	1.7	6.2	17.4
0901_03	62 ppm	Day : 93	2.3	7.7	20.4
0902_03	62 ppm	Day : 93	2.1	7.2	19.5
0903_03	62 ppm	Day : 93	2.2	7.6	21.8
0904_03	62 ppm	Day : 93	2.5	8.1	21.8
0905_03	62 ppm	Day : 93	2.2	7.3	20.1
0906_03	62 ppm	Day : 93	2.2	7.5	17.5
0907_03	62 ppm	Day : 93	2.3	7.6	18.7
0908_03	62 ppm	Day : 93	1.9	6.8	15.4
0909_03	62 ppm	Day : 93	2.1	7.3	19.7
0910_03	62 ppm	Day : 93	2.2	7.5	23.2
0911_03	62 ppm	Day : 3	1.5	5.7	13.1
0911_03	62 ppm	Day : 23	1.9	6.7	17.9

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:00

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	62 ppm	Day : 3	1.4	5.6	11.2
0912_03	62 ppm	Day : 23	1.8	6.4	21.2
0913_03	62 ppm	Day : 3	1.6	6.0	15.5
0913_03	62 ppm	Day : 23	1.9	6.7	18.2
0914_03	62 ppm	Day : 3	1.6	5.9	11.8
0914_03	62 ppm	Day : 23	1.8	6.4	15.8
0915_03	62 ppm	Day : 3	1.6	5.9	14.7
0915_03	62 ppm	Day : 23	2.0	6.8	21.1
0916_03	62 ppm	Day : 3	1.5	6.0	17.0
0916_03	62 ppm	Day : 23	1.9	6.7	20.3
0917_03	62 ppm	Day : 3	1.7	5.9	8.3
0917_03	62 ppm	Day : 23	1.7	6.3	16.5
0918_03	62 ppm	Day : 3	1.6	6.1	9.3
0918_03	62 ppm	Day : 23	1.9	6.6	18.3
0919_03	62 ppm	Day : 3	1.5	5.9	16.2
0919_03	62 ppm	Day : 23	1.8	6.5	15.6
0920_03	62 ppm	Day : 3	1.7	6.0	9.5
0920_03	62 ppm	Day : 23	1.7	6.3	14.8
1101_03	125 ppm	Day : 93	2.1	7.2	21.1
1102_03	125 ppm	Day : 93	1.9	6.8	18.2
1103_03	125 ppm	Day : 93	2.1	7.2	16.8
1104_03	125 ppm	Day : 93	2.0	7.0	22.8

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:01

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	125 ppm	Day : 93	2.0	6.9	16.4
1106_03	125 ppm	Day : 93	2.0	6.8	11.6
1107_03	125 ppm	Day : 93	2.1	7.3	19.7
1108_03	125 ppm	Day : 93	2.0	6.8	19.9
1109_03	125 ppm	Day : 93	2.1	7.1	10.9
1110_03	125 ppm	Day : 93	2.0	7.0	19.0
1111_03	125 ppm	Day : 3	1.7	6.1	13.5
1111_03	125 ppm	Day : 23	1.9	6.6	17.3
1112_03	125 ppm	Day : 3	1.6	5.8	12.4
1112_03	125 ppm	Day : 23	1.9	6.6	16.8
1113_03	125 ppm	Day : 3	1.6	5.9	9.7
1113_03	125 ppm	Day : 23	1.7	6.0	14.1
1114_03	125 ppm	Day : 3	1.6	5.9	12.7
1114_03	125 ppm	Day : 23	1.6	6.0	13.2
1115_03	125 ppm	Day : 3	1.7	6.2	11.8
1115_03	125 ppm	Day : 23	2.0	6.8	19.5
1116_03	125 ppm	Day : 3	1.6	6.0	12.9
1116_03	125 ppm	Day : 23	2.0	6.9	21.9
1117_03	125 ppm	Day : 3	1.7	6.3	12.8
1117_03	125 ppm	Day : 23	2.0	6.8	20.6
1118_03	125 ppm	Day : 3	1.8	6.1	8.8
1118_03	125 ppm	Day : 23	1.7	6.2	10.5

Experiment Number: 99017-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:28:01

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	125 ppm	Day : 3	1.6	6.0	11.6
1119_03	125 ppm	Day : 23	1.7	6.1	12.3
1120_03	125 ppm	Day : 3	1.5	5.9	10.9
1120_03	125 ppm	Day : 23	1.9	6.6	19.9

\*\* END OF REPORT \*\*