

**Experiment Number:** 20008-01

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

**P42: Clinical Chemistry Data**

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

**Time Report Requested:** 15:38:48

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

**Lab:** NA

**C Number:** C20008

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:48

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0001_01	0 ppm	Day : 93	4.5	244	112	21.5
0002_01	0 ppm	Day : 93	4.5	232	116	27.4
0003_01	0 ppm	Day : 93	4.5	225	220	32.2
0004_01	0 ppm	Day : 93	4.5	244	102	17.3
0005_01	0 ppm	Day : 93	4.5	198	156	20.8
0006_01	0 ppm	Day : 93	4.4	213	113	36.8
0007_01	0 ppm	Day : 93	4.4	206	129	29.0
0008_01	0 ppm	Day : 93	4.5	200	158	20.7
0009_01	0 ppm	Day : 93	4.7	229	134	28.2
0010_01	0 ppm	Day : 93	4.6	182	101	26.4
0011_01	3125 ppm	Day : 93	4.6	204	67	15.4
0012_01	3125 ppm	Day : 93	4.6	225	201	22.6
0013_01	3125 ppm	Day : 93	4.4	222	91	16.7
0014_01	3125 ppm	Day : 93	4.5	201	78	19.3
0015_01	3125 ppm	Day : 93	4.6	231	154	17.1
0016_01	3125 ppm	Day : 93	4.5	178	65	18.7
0017_01	3125 ppm	Day : 93	4.6	207	141	30.6
0018_01	3125 ppm	Day : 93	4.5	191	89	35.5
0019_01	3125 ppm	Day : 93	4.4	185	87	18.8
0020_01	3125 ppm	Day : 93	4.3	197	72	20.6
0021_01	6250 ppm	Day : 93	4.4	214	187	51.5
0022_01	6250 ppm	Day : 93	4.6	218	67	23.9

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0023_01	6250 ppm	Day : 93	4.6	206	50	14.0
0024_01	6250 ppm	Day : 93	4.5	220	223	31.3
0025_01	6250 ppm	Day : 93	4.4	209	81	30.3
0026_01	6250 ppm	Day : 93	4.5	208	97	20.1
0027_01	6250 ppm	Day : 93	4.4	197	59	17.4
0028_01	6250 ppm	Day : 93	4.5	201	77	22.6
0029_01	6250 ppm	Day : 93	4.5	205	67	23.4
0030_01	6250 ppm	Day : 93	4.6	209	80	15.2
0031_01	12500 ppm	Day : 93	4.4	218	78	17.0
0032_01	12500 ppm	Day : 93	4.6	228	73	15.1
0033_01	12500 ppm	Day : 93	4.6	223	52	11.9
0034_01	12500 ppm	Day : 93	4.7	212	49	19.2
0035_01	12500 ppm	Day : 93	4.5	206	59	15.6
0036_01	12500 ppm	Day : 93	4.5	215	117	20.7
0037_01	12500 ppm	Day : 93	4.8	221	153	18.6
0038_01	12500 ppm	Day : 93	4.5	225	191	28.5
0039_01	12500 ppm	Day : 93	4.6	211	96	16.1
0040_01	12500 ppm	Day : 93	4.6	206	68	15.3
0041_01	25000 ppm	Day : 93	4.5	227	62	18.1
0042_01	25000 ppm	Day : 93	4.5	246	70	18.2
0043_01	25000 ppm	Day : 93	4.7	263	72	14.8
0044_01	25000 ppm	Day : 93	4.7	258	51	13.3

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0044_01	25000 ppm	Day : 93	4.7	258	51	13.3
0045_01	25000 ppm	Day : 93	4.7	263	67	14.3
0046_01	25000 ppm	Day : 93	4.6	214	78	15.5
0047_01	25000 ppm	Day : 93	4.7	237	62	17.7
0048_01	25000 ppm	Day : 93	4.5	235	70	16.3
0049_01	25000 ppm	Day : 93	4.7	260	86	15.2
0050_01	25000 ppm	Day : 93	4.4	208	93	21.3
0051_01	50000 ppm	Day : 93	4.5	193	54	20.6
0052_01	50000 ppm	Day : 93	4.5	179	63	13.3
0053_01	50000 ppm	Day : 93	4.6	186	51	14.6
0054_01	50000 ppm	Day : 93	4.9	229	58	13.4
0055_01	50000 ppm	Day : 93	4.5	197	45	14.4
0056_01	50000 ppm	Day : 93	4.4	174	48	17.0
0057_01	50000 ppm	Day : 93	4.5	211	63	17.0
0058_01	50000 ppm	Day : 93	4.6	200	62	12.5
0059_01	50000 ppm	Day : 93	4.4	179	108	22.9
0060_01	50000 ppm	Day : 93	4.5	197	58	11.7
0121_01	0 ppm	Day : 5	3.8	734	62	13.1
0121_01	0 ppm	Day : 23	4.3	455	49	20.4
0122_01	0 ppm	Day : 5	3.9	732	83	24.8
0122_01	0 ppm	Day : 23	4.4	554	52	26.1
0123_01	0 ppm	Day : 5	3.7	968	78	20.4

## MALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0123_01	0 ppm	Day : 23	4.3	557	49	16.0
0124_01	0 ppm	Day : 5	4.4	785	67	26.1
0124_01	0 ppm	Day : 23	4.2	454	53	23.6
0125_01	0 ppm	Day : 5	4.2	727	61	14.6
0125_01	0 ppm	Day : 23	4.1	446	52	13.8
0126_01	0 ppm	Day : 5	4.0	726	63	16.1
0126_01	0 ppm	Day : 23	4.3	419	49	17.9
0127_01	0 ppm	Day : 5	4.4	817	74	21.9
0127_01	0 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0128_01	0 ppm	Day : 5	3.9	890	82	27.1
0128_01	0 ppm	Day : 23	4.3	462	50	17.5
0129_01	0 ppm	Day : 5	3.9	812	80	43.6
0129_01	0 ppm	Day : 23	4.4	504	48	27.0
0130_01	0 ppm	Day : 5	3.9	731	71	32.2
0130_01	0 ppm	Day : 23	4.1	474	50	30.2
0131_01	3125 ppm	Day : 5	4.0	694	62	23.0
0131_01	3125 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0132_01	3125 ppm	Day : 5	4.3	775	63	16.4
0132_01	3125 ppm	Day : 23	4.7	415	38	18.4
0133_01	3125 ppm	Day : 5	4.1	815	82	28.9
0133_01	3125 ppm	Day : 23	4.5	560	50	22.3
0134_01	3125 ppm	Day : 5	3.9	959	85	32.2

## MALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0134_01	3125 ppm	Day : 5	3.9	959	85	32.2
0134_01	3125 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0135_01	3125 ppm	Day : 5	4.1	849	74	19.2
0135_01	3125 ppm	Day : 23	4.3	497	45	16.5
0136_01	3125 ppm	Day : 5	3.9	646	63	15.8
0136_01	3125 ppm	Day : 23	4.3	434	47	21.9
0137_01	3125 ppm	Day : 5	4.0	765	77	24.1
0137_01	3125 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0138_01	3125 ppm	Day : 5	3.9	637	57	19.1
0138_01	3125 ppm	Day : 23	4.6	461	54	16.7
0139_01	3125 ppm	Day : 5	4.0	690	67	16.0
0139_01	3125 ppm	Day : 23	4.5	449	37	24.8
0140_01	3125 ppm	Day : 5	3.7	862	74	25.3
0140_01	3125 ppm	Day : 23	4.6	497	46	19.8
0141_01	6250 ppm	Day : 5	3.7	803	80	18.1
0141_01	6250 ppm	Day : 23	4.3	495	60	40.9
0142_01	6250 ppm	Day : 5	3.9	925	69	13.6
0142_01	6250 ppm	Day : 23	4.3	509	58	13.8
0143_01	6250 ppm	Day : 5	3.9	915	75	24.4
0143_01	6250 ppm	Day : 23	4.3	458	58	19.1
0144_01	6250 ppm	Day : 5	4.5	749	62	15.7
0144_01	6250 ppm	Day : 23	4.4	393	59	13.1

## MALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0145_01	6250 ppm	Day : 5	4.0	849	80	20.2
0145_01	6250 ppm	Day : 23	4.2	417	53	32.8
0146_01	6250 ppm	Day : 5	ND	ND	ND	ND
0146_01	6250 ppm	Day : 23	4.2	462	48	15.0
0147_01	6250 ppm	Day : 5	4.0	842	66	15.8
0147_01	6250 ppm	Day : 23	4.4	458	43	12.4
0148_01	6250 ppm	Day : 5	3.8	796	74	28.9
0148_01	6250 ppm	Day : 23	4.4	495	48	17.7
0149_01	6250 ppm	Day : 5	3.8	758	72	30.8
0149_01	6250 ppm	Day : 23	4.2	484	49	25.2
0150_01	6250 ppm	Day : 5	3.5	911	81	27.3
0150_01	6250 ppm	Day : 23	4.6	547	53	14.3
0151_01	12500 ppm	Day : 5	3.9	756	73	25.4
0151_01	12500 ppm	Day : 23	4.2	521	57	14.7
0152_01	12500 ppm	Day : 5	4.3	818	72	20.3
0152_01	12500 ppm	Day : 23	4.5	507	53	23.3
0153_01	12500 ppm	Day : 5	3.9	845	77	21.3
0153_01	12500 ppm	Day : 23	4.2	541	51	25.8
0154_01	12500 ppm	Day : 5	4.2	712	67	14.8
0154_01	12500 ppm	Day : 23	4.2	484	53	21.7
0155_01	12500 ppm	Day : 5	3.7	809	78	21.5
0155_01	12500 ppm	Day : 23	4.2	531	54	22.6

## MALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0155_01	12500 ppm	Day : 23	4.2	531	54	22.6
0156_01	12500 ppm	Day : 5	ND	ND	ND	ND
0156_01	12500 ppm	Day : 23	4.3	579	52	12.7
0157_01	12500 ppm	Day : 5	4.2	714	72	31.7
0157_01	12500 ppm	Day : 23	4.4	443	53	19.0
0158_01	12500 ppm	Day : 5	4.1	622	70	20.7
0158_01	12500 ppm	Day : 23	4.4	457	60	15.1
0159_01	12500 ppm	Day : 5	3.7	825	72	25.0
0159_01	12500 ppm	Day : 23	4.5	507	54	24.3
0160_01	12500 ppm	Day : 5	4.1	773	78	29.3
0160_01	12500 ppm	Day : 23	4.2	497	52	24.7
0161_01	25000 ppm	Day : 5	3.9	704	69	13.7
0161_01	25000 ppm	Day : 23	4.3	473	57	12.3
0162_01	25000 ppm	Day : 5	4.0	779	79	15.3
0162_01	25000 ppm	Day : 23	4.4	490	53	13.2
0163_01	25000 ppm	Day : 5	4.1	810	87	16.9
0163_01	25000 ppm	Day : 23	4.4	489	56	10.9
0164_01	25000 ppm	Day : 5	4.1	870	103	28.1
0164_01	25000 ppm	Day : 23	4.3	543	57	10.6
0165_01	25000 ppm	Day : 5	3.8	805	82	20.1
0165_01	25000 ppm	Day : 23	4.3	506	55	12.5
0166_01	25000 ppm	Day : 5	4.0	765	89	16.8



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**MALE**


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Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0166_01	25000 ppm	Day : 23	4.2	454	52	16.8
0167_01	25000 ppm	Day : 5	3.7	974	96	20.7
0167_01	25000 ppm	Day : 23	4.5	513	51	19.7
0168_01	25000 ppm	Day : 5	4.1	732	65	19.5
0168_01	25000 ppm	Day : 23	4.5	448	58	13.0
0169_01	25000 ppm	Day : 5	3.7	831	92	14.9
0169_01	25000 ppm	Day : 23	4.4	503	57	14.4
0170_01	25000 ppm	Day : 5	3.8	844	90	20.0
0170_01	25000 ppm	Day : 23	4.4	509	58	18.0
0171_01	50000 ppm	Day : 5	4.0	654	100	15.0
0171_01	50000 ppm	Day : 23	4.3	404	65	16.7
0172_01	50000 ppm	Day : 5	4.0	798	124	19.5
0172_01	50000 ppm	Day : 23	4.4	464	73	12.7
0173_01	50000 ppm	Day : 5	4.1	797	124	16.2
0173_01	50000 ppm	Day : 23	4.3	427	64	12.6
0174_01	50000 ppm	Day : 5	4.4	725	108	14.6
0174_01	50000 ppm	Day : 23	4.4	402	60	12.0
0175_01	50000 ppm	Day : 5	4.1	830	137	19.6
0175_01	50000 ppm	Day : 23	4.4	490	68	11.5
0176_01	50000 ppm	Day : 5	4.1	745	115	14.1
0176_01	50000 ppm	Day : 23	4.8	328	34	17.4
0177_01	50000 ppm	Day : 5	4.1	673	106	15.5

Experiment Number: 20008-01

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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	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0177_01	50000 ppm	Day : 5	4.1	673	106	15.5
0177_01	50000 ppm	Day : 23	4.9	339	47	14.2
0178_01	50000 ppm	Day : 5	3.7	722	126	21.8
0178_01	50000 ppm	Day : 23	5.0	411	45	13.2
0179_01	50000 ppm	Day : 5	4.0	776	130	20.8
0179_01	50000 ppm	Day : 23	4.6	424	48	15.7
0180_01	50000 ppm	Day : 5	3.8	687	119	19.7
0180_01	50000 ppm	Day : 23	4.6	399	48	17.5

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0001_01	0 ppm	Day : 93	18.6	408	0.7	6.9
0002_01	0 ppm	Day : 93	21.5	550	0.7	6.7
0003_01	0 ppm	Day : 93	18.3	677	0.8	6.8
0004_01	0 ppm	Day : 93	20.4	297	0.7	6.6
0005_01	0 ppm	Day : 93	19.1	334	0.7	6.8
0006_01	0 ppm	Day : 93	19.3	516	0.7	6.4
0007_01	0 ppm	Day : 93	19.6	494	0.7	6.8
0008_01	0 ppm	Day : 93	19.3	426	0.8	6.7
0009_01	0 ppm	Day : 93	19.0	283	0.7	7.1
0010_01	0 ppm	Day : 93	17.4	281	0.8	7.1
0011_01	3125 ppm	Day : 93	21.3	258	0.7	6.9
0012_01	3125 ppm	Day : 93	22.7	249	0.7	6.8
0013_01	3125 ppm	Day : 93	23.0	360	0.7	6.8
0014_01	3125 ppm	Day : 93	21.3	477	0.7	6.9
0015_01	3125 ppm	Day : 93	21.6	315	0.8	6.9
0016_01	3125 ppm	Day : 93	18.2	371	0.7	6.7
0017_01	3125 ppm	Day : 93	20.8	509	0.7	6.7
0018_01	3125 ppm	Day : 93	20.5	345	0.8	6.6
0019_01	3125 ppm	Day : 93	21.8	394	0.6	6.5
0020_01	3125 ppm	Day : 93	17.4	397	0.7	6.5
0021_01	6250 ppm	Day : 93	23.4	484	0.8	6.6
0022_01	6250 ppm	Day : 93	20.0	280	0.7	7.0

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Lab: NA

**MALE**

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0023_01	6250 ppm	Day : 93	18.7	350	0.7	6.9
0024_01	6250 ppm	Day : 93	24.4	330	0.8	6.6
0025_01	6250 ppm	Day : 93	19.6	276	0.9	6.8
0026_01	6250 ppm	Day : 93	21.9	175	0.8	6.8
0027_01	6250 ppm	Day : 93	21.6	399	0.7	6.5
0028_01	6250 ppm	Day : 93	19.5	248	0.7	6.7
0029_01	6250 ppm	Day : 93	19.0	412	0.7	6.5
0030_01	6250 ppm	Day : 93	19.7	309	0.7	6.8
0031_01	12500 ppm	Day : 93	18.6	895	0.7	6.4
0032_01	12500 ppm	Day : 93	18.8	287	0.7	6.7
0033_01	12500 ppm	Day : 93	16.5	482	0.7	6.9
0034_01	12500 ppm	Day : 93	17.3	284	0.7	6.7
0035_01	12500 ppm	Day : 93	19.1	298	0.7	6.6
0036_01	12500 ppm	Day : 93	20.6	476	0.7	6.6
0037_01	12500 ppm	Day : 93	23.9	380	0.7	7.0
0038_01	12500 ppm	Day : 93	22.3	610	0.7	6.6
0039_01	12500 ppm	Day : 93	23.1	279	0.8	6.5
0040_01	12500 ppm	Day : 93	20.5	788	0.7	7.0
0041_01	25000 ppm	Day : 93	21.8	327	0.7	6.5
0042_01	25000 ppm	Day : 93	21.8	277	0.7	6.5
0043_01	25000 ppm	Day : 93	22.8	380	0.7	7.1
0044_01	25000 ppm	Day : 93	18.6	301	0.7	7.1

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Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0045_01	25000 ppm	Day : 93	19.8	248	0.7	7.0
0046_01	25000 ppm	Day : 93	20.7	625	0.7	6.7
0047_01	25000 ppm	Day : 93	20.6	321	0.7	6.8
0048_01	25000 ppm	Day : 93	22.3	558	0.8	6.8
0049_01	25000 ppm	Day : 93	21.7	380	0.7	6.8
0050_01	25000 ppm	Day : 93	21.1	544	0.7	6.7
0051_01	50000 ppm	Day : 93	18.4	581	0.7	6.5
0052_01	50000 ppm	Day : 93	18.1	417	0.7	6.5
0053_01	50000 ppm	Day : 93	19.0	569	0.6	6.8
0054_01	50000 ppm	Day : 93	17.3	262	0.8	7.1
0055_01	50000 ppm	Day : 93	17.4	1213	0.7	6.6
0056_01	50000 ppm	Day : 93	19.3	345	0.7	6.4
0057_01	50000 ppm	Day : 93	20.5	524	0.7	6.5
0058_01	50000 ppm	Day : 93	19.8	421	0.6	6.6
0059_01	50000 ppm	Day : 93	20.6	482	0.7	6.2
0060_01	50000 ppm	Day : 93	17.0	330	0.6	6.8
0121_01	0 ppm	Day : 5	15.5	299	0.5	5.3
0121_01	0 ppm	Day : 23	16.6	276	0.6	6.0
0122_01	0 ppm	Day : 5	13.3	334	0.5	5.4
0122_01	0 ppm	Day : 23	13.1	374	0.5	6.1
0123_01	0 ppm	Day : 5	15.7	337	0.5	5.1
0123_01	0 ppm	Day : 23	15.7	576	0.6	6.1

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**MALE**


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Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0124_01	0 ppm	Day : 5	14.8	387	0.6	6.3
0124_01	0 ppm	Day : 23	16.8	549	0.6	5.9
0125_01	0 ppm	Day : 5	11.9	355	0.6	6.0
0125_01	0 ppm	Day : 23	16.9	364	0.6	5.7
0126_01	0 ppm	Day : 5	14.6	484	0.5	5.7
0126_01	0 ppm	Day : 23	17.1	283	0.7	6.0
0127_01	0 ppm	Day : 5	15.1	643	0.6	6.4
0127_01	0 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0128_01	0 ppm	Day : 5	15.9	475	0.5	5.7
0128_01	0 ppm	Day : 23	13.6	597	0.6	5.9
0129_01	0 ppm	Day : 5	12.9	336	0.6	5.3
0129_01	0 ppm	Day : 23	14.6	303	0.6	6.0
0130_01	0 ppm	Day : 5	12.1	372	0.6	5.2
0130_01	0 ppm	Day : 23	14.2	496	0.6	5.7
0131_01	3125 ppm	Day : 5	14.6	483	0.5	5.5
0131_01	3125 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0132_01	3125 ppm	Day : 5	13.4	262	0.5	6.1
0132_01	3125 ppm	Day : 23	18.5	429	0.6	6.8
0133_01	3125 ppm	Day : 5	14.7	373	0.5	5.5
0133_01	3125 ppm	Day : 23	16.0	311	0.6	6.3
0134_01	3125 ppm	Day : 5	14.4	457	0.5	5.4
0134_01	3125 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0135_01	3125 ppm	Day : 5	13.3	410	0.5	5.6
0135_01	3125 ppm	Day : 23	16.3	493	0.6	5.8
0136_01	3125 ppm	Day : 5	14.3	390	0.5	5.4
0136_01	3125 ppm	Day : 23	16.3	391	0.6	5.9
0137_01	3125 ppm	Day : 5	17.3	784	0.5	6.1
0137_01	3125 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0138_01	3125 ppm	Day : 5	15.8	500	0.5	5.5
0138_01	3125 ppm	Day : 23	17.7	482	0.7	6.5
0139_01	3125 ppm	Day : 5	11.9	393	0.5	5.5
0139_01	3125 ppm	Day : 23	18.3	489	0.6	6.1
0140_01	3125 ppm	Day : 5	14.0	463	0.5	5.2
0140_01	3125 ppm	Day : 23	16.0	523	0.6	6.4
0141_01	6250 ppm	Day : 5	14.8	451	0.5	4.9
0141_01	6250 ppm	Day : 23	16.8	220	0.6	5.9
0142_01	6250 ppm	Day : 5	13.7	270	0.5	5.3
0142_01	6250 ppm	Day : 23	15.3	267	0.6	5.9
0143_01	6250 ppm	Day : 5	14.3	279	0.5	5.3
0143_01	6250 ppm	Day : 23	15.7	302	0.6	5.8
0144_01	6250 ppm	Day : 5	13.4	257	0.6	6.4
0144_01	6250 ppm	Day : 23	18.2	235	0.6	6.1
0145_01	6250 ppm	Day : 5	13.5	433	0.5	5.6
0145_01	6250 ppm	Day : 23	16.6	338	0.6	5.7

Experiment Number: 20008-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0146_01	6250 ppm	Day : 5	ND	ND	ND	ND
0146_01	6250 ppm	Day : 23	15.3	508	0.6	5.9
0147_01	6250 ppm	Day : 5	13.9	426	0.5	5.8
0147_01	6250 ppm	Day : 23	13.6	361	0.6	6.1
0148_01	6250 ppm	Day : 5	14.7	482	0.6	5.2
0148_01	6250 ppm	Day : 23	13.8	488	0.6	6.0
0149_01	6250 ppm	Day : 5	13.3	535	0.5	5.1
0149_01	6250 ppm	Day : 23	15.6	444	0.6	5.8
0150_01	6250 ppm	Day : 5	14.9	724	0.5	4.8
0150_01	6250 ppm	Day : 23	15.7	352	0.6	6.2
0151_01	12500 ppm	Day : 5	13.6	395	0.5	5.0
0151_01	12500 ppm	Day : 23	14.9	497	0.6	5.6
0152_01	12500 ppm	Day : 5	14.6	296	0.6	5.9
0152_01	12500 ppm	Day : 23	15.6	262	0.6	6.3
0153_01	12500 ppm	Day : 5	13.3	333	0.6	5.2
0153_01	12500 ppm	Day : 23	13.9	373	0.5	5.6
0154_01	12500 ppm	Day : 5	13.2	298	0.6	6.0
0154_01	12500 ppm	Day : 23	13.9	491	0.6	5.8
0155_01	12500 ppm	Day : 5	16.4	328	0.5	5.1
0155_01	12500 ppm	Day : 23	14.5	433	0.7	5.8
0156_01	12500 ppm	Day : 5	ND	ND	ND	ND
0156_01	12500 ppm	Day : 23	13.5	288	0.5	5.6



Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0157_01	12500 ppm	Day : 5	12.2	457	0.5	5.9
0157_01	12500 ppm	Day : 23	15.1	470	0.6	6.1
0158_01	12500 ppm	Day : 5	13.9	484	0.5	5.8
0158_01	12500 ppm	Day : 23	15.3	251	0.5	6.1
0159_01	12500 ppm	Day : 5	13.8	864	0.5	5.1
0159_01	12500 ppm	Day : 23	15.2	369	0.6	6.1
0160_01	12500 ppm	Day : 5	13.0	608	0.6	5.5
0160_01	12500 ppm	Day : 23	13.3	395	0.6	6.0
0161_01	25000 ppm	Day : 5	15.0	425	0.5	5.4
0161_01	25000 ppm	Day : 23	13.7	314	0.6	5.8
0162_01	25000 ppm	Day : 5	11.4	227	0.5	5.6
0162_01	25000 ppm	Day : 23	15.0	241	0.6	6.2
0163_01	25000 ppm	Day : 5	11.5	299	0.5	5.6
0163_01	25000 ppm	Day : 23	14.2	298	0.6	6.2
0164_01	25000 ppm	Day : 5	12.3	464	0.5	5.5
0164_01	25000 ppm	Day : 23	11.8	371	0.5	6.0
0165_01	25000 ppm	Day : 5	13.9	296	0.5	5.1
0165_01	25000 ppm	Day : 23	14.2	431	0.6	6.0
0166_01	25000 ppm	Day : 5	13.5	544	0.6	5.5
0166_01	25000 ppm	Day : 23	14.8	297	0.5	5.6
0167_01	25000 ppm	Day : 5	13.4	596	0.6	5.0
0167_01	25000 ppm	Day : 23	16.4	467	0.6	6.0

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0168_01	25000 ppm	Day : 5	12.7	725	0.5	5.5
0168_01	25000 ppm	Day : 23	14.5	352	0.6	6.2
0169_01	25000 ppm	Day : 5	13.0	389	0.5	5.0
0169_01	25000 ppm	Day : 23	17.2	268	0.5	5.9
0170_01	25000 ppm	Day : 5	12.9	445	0.5	5.2
0170_01	25000 ppm	Day : 23	16.2	740	0.6	5.9
0171_01	50000 ppm	Day : 5	14.9	581	0.5	5.4
0171_01	50000 ppm	Day : 23	16.5	373	0.5	6.0
0172_01	50000 ppm	Day : 5	14.3	289	0.6	5.3
0172_01	50000 ppm	Day : 23	15.1	542	0.5	5.9
0173_01	50000 ppm	Day : 5	12.2	413	0.6	5.5
0173_01	50000 ppm	Day : 23	14.3	402	0.5	5.8
0174_01	50000 ppm	Day : 5	13.4	311	0.6	6.2
0174_01	50000 ppm	Day : 23	15.1	372	0.6	6.0
0175_01	50000 ppm	Day : 5	13.7	681	0.5	5.6
0175_01	50000 ppm	Day : 23	13.2	258	0.6	5.6
0176_01	50000 ppm	Day : 5	12.8	562	0.5	5.8
0176_01	50000 ppm	Day : 23	17.8	592	0.5	6.6
0177_01	50000 ppm	Day : 5	12.4	498	0.5	5.7
0177_01	50000 ppm	Day : 23	21.2	383	0.6	6.7
0178_01	50000 ppm	Day : 5	12.6	481	0.5	5.1
0178_01	50000 ppm	Day : 23	18.7	403	0.5	6.9

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0179_01	50000 ppm	Day : 5	13.9	476	0.5	5.3
0179_01	50000 ppm	Day : 23	20.2	530	0.5	6.1
0180_01	50000 ppm	Day : 5	12.5	529	0.5	5.1
0180_01	50000 ppm	Day : 23	22.0	518	0.5	6.2

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0001_01	0 ppm	Day : 93	17.2
0002_01	0 ppm	Day : 93	13.4
0003_01	0 ppm	Day : 93	39.2
0004_01	0 ppm	Day : 93	19.1
0005_01	0 ppm	Day : 93	34.8
0006_01	0 ppm	Day : 93	19.2
0007_01	0 ppm	Day : 93	23.1
0008_01	0 ppm	Day : 93	27.0
0009_01	0 ppm	Day : 93	28.7
0010_01	0 ppm	Day : 93	28.7
0011_01	3125 ppm	Day : 93	18.7
0012_01	3125 ppm	Day : 93	31.1
0013_01	3125 ppm	Day : 93	21.1
0014_01	3125 ppm	Day : 93	11.0
0015_01	3125 ppm	Day : 93	28.2
0016_01	3125 ppm	Day : 93	16.6
0017_01	3125 ppm	Day : 93	24.7
0018_01	3125 ppm	Day : 93	27.8
0019_01	3125 ppm	Day : 93	20.0
0020_01	3125 ppm	Day : 93	17.2
0021_01	6250 ppm	Day : 93	26.1
0022_01	6250 ppm	Day : 93	22.8

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0023_01	6250 ppm	Day : 93	15.1
0024_01	6250 ppm	Day : 93	34.4
0025_01	6250 ppm	Day : 93	17.5
0026_01	6250 ppm	Day : 93	24.1
0027_01	6250 ppm	Day : 93	14.5
0028_01	6250 ppm	Day : 93	21.2
0029_01	6250 ppm	Day : 93	16.9
0030_01	6250 ppm	Day : 93	19.3
0031_01	12500 ppm	Day : 93	8.6
0032_01	12500 ppm	Day : 93	17.4
0033_01	12500 ppm	Day : 93	11.0
0034_01	12500 ppm	Day : 93	12.5
0035_01	12500 ppm	Day : 93	19.2
0036_01	12500 ppm	Day : 93	22.7
0037_01	12500 ppm	Day : 93	23.4
0038_01	12500 ppm	Day : 93	33.0
0039_01	12500 ppm	Day : 93	27.4
0040_01	12500 ppm	Day : 93	12.0
0041_01	25000 ppm	Day : 93	11.4
0042_01	25000 ppm	Day : 93	15.9
0043_01	25000 ppm	Day : 93	11.3
0044_01	25000 ppm	Day : 93	12.5

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0045_01	25000 ppm	Day : 93	14.9
0046_01	25000 ppm	Day : 93	10.9
0047_01	25000 ppm	Day : 93	14.8
0048_01	25000 ppm	Day : 93	16.1
0049_01	25000 ppm	Day : 93	15.9
0050_01	25000 ppm	Day : 93	13.2
0051_01	50000 ppm	Day : 93	17.5
0052_01	50000 ppm	Day : 93	11.5
0053_01	50000 ppm	Day : 93	3.7
0054_01	50000 ppm	Day : 93	21.6
0055_01	50000 ppm	Day : 93	10.2
0056_01	50000 ppm	Day : 93	9.0
0057_01	50000 ppm	Day : 93	9.8
0058_01	50000 ppm	Day : 93	12.6
0059_01	50000 ppm	Day : 93	26.9
0060_01	50000 ppm	Day : 93	18.4
0121_01	0 ppm	Day : 5	13.3
0121_01	0 ppm	Day : 23	14.2
0122_01	0 ppm	Day : 5	11.7
0122_01	0 ppm	Day : 23	14.6
0123_01	0 ppm	Day : 5	12.7
0123_01	0 ppm	Day : 23	9.2

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0124_01	0 ppm	Day : 5	17.0
0124_01	0 ppm	Day : 23	10.6
0125_01	0 ppm	Day : 5	18.6
0125_01	0 ppm	Day : 23	11.1
0126_01	0 ppm	Day : 5	13.7
0126_01	0 ppm	Day : 23	13.4
0127_01	0 ppm	Day : 5	13.5
0127_01	0 ppm	Day : 23	DEAD
0128_01	0 ppm	Day : 5	12.4
0128_01	0 ppm	Day : 23	8.0
0129_01	0 ppm	Day : 5	17.5
0129_01	0 ppm	Day : 23	11.0
0130_01	0 ppm	Day : 5	13.5
0130_01	0 ppm	Day : 23	8.5
0131_01	3125 ppm	Day : 5	10.3
0131_01	3125 ppm	Day : 23	DEAD
0132_01	3125 ppm	Day : 5	14.9
0132_01	3125 ppm	Day : 23	8.1
0133_01	3125 ppm	Day : 5	14.1
0133_01	3125 ppm	Day : 23	10.5
0134_01	3125 ppm	Day : 5	13.8
0134_01	3125 ppm	Day : 23	DEAD

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0135_01	3125 ppm	Day : 5	19.2
0135_01	3125 ppm	Day : 23	8.4
0136_01	3125 ppm	Day : 5	12.3
0136_01	3125 ppm	Day : 23	10.3
0137_01	3125 ppm	Day : 5	6.1
0137_01	3125 ppm	Day : 23	DEAD
0138_01	3125 ppm	Day : 5	7.9
0138_01	3125 ppm	Day : 23	12.8
0139_01	3125 ppm	Day : 5	12.5
0139_01	3125 ppm	Day : 23	15.0
0140_01	3125 ppm	Day : 5	11.1
0140_01	3125 ppm	Day : 23	9.3
0141_01	6250 ppm	Day : 5	12.9
0141_01	6250 ppm	Day : 23	13.3
0142_01	6250 ppm	Day : 5	14.7
0142_01	6250 ppm	Day : 23	14.2
0143_01	6250 ppm	Day : 5	12.4
0143_01	6250 ppm	Day : 23	13.0
0144_01	6250 ppm	Day : 5	15.0
0144_01	6250 ppm	Day : 23	15.0
0145_01	6250 ppm	Day : 5	12.2
0145_01	6250 ppm	Day : 23	12.1



Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0146_01	6250 ppm	Day : 5	ND
0146_01	6250 ppm	Day : 23	8.1
0147_01	6250 ppm	Day : 5	12.5
0147_01	6250 ppm	Day : 23	12.7
0148_01	6250 ppm	Day : 5	9.5
0148_01	6250 ppm	Day : 23	7.4
0149_01	6250 ppm	Day : 5	9.1
0149_01	6250 ppm	Day : 23	10.8
0150_01	6250 ppm	Day : 5	7.0
0150_01	6250 ppm	Day : 23	12.5
0151_01	12500 ppm	Day : 5	14.2
0151_01	12500 ppm	Day : 23	9.3
0152_01	12500 ppm	Day : 5	15.3
0152_01	12500 ppm	Day : 23	13.8
0153_01	12500 ppm	Day : 5	12.7
0153_01	12500 ppm	Day : 23	10.4
0154_01	12500 ppm	Day : 5	13.6
0154_01	12500 ppm	Day : 23	9.0
0155_01	12500 ppm	Day : 5	13.1
0155_01	12500 ppm	Day : 23	9.0
0156_01	12500 ppm	Day : 5	ND
0156_01	12500 ppm	Day : 23	11.9

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:49

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0157_01	12500 ppm	Day : 5	11.9
0157_01	12500 ppm	Day : 23	14.0
0158_01	12500 ppm	Day : 5	14.8
0158_01	12500 ppm	Day : 23	15.2
0159_01	12500 ppm	Day : 5	6.2
0159_01	12500 ppm	Day : 23	11.8
0160_01	12500 ppm	Day : 5	5.7
0160_01	12500 ppm	Day : 23	8.9
0161_01	25000 ppm	Day : 5	10.3
0161_01	25000 ppm	Day : 23	10.9
0162_01	25000 ppm	Day : 5	14.0
0162_01	25000 ppm	Day : 23	11.4
0163_01	25000 ppm	Day : 5	15.4
0163_01	25000 ppm	Day : 23	9.7
0164_01	25000 ppm	Day : 5	11.2
0164_01	25000 ppm	Day : 23	7.9
0165_01	25000 ppm	Day : 5	15.8
0165_01	25000 ppm	Day : 23	7.7
0166_01	25000 ppm	Day : 5	10.5
0166_01	25000 ppm	Day : 23	12.7
0167_01	25000 ppm	Day : 5	8.4
0167_01	25000 ppm	Day : 23	7.9

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:50

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0168_01	25000 ppm	Day : 5	4.7
0168_01	25000 ppm	Day : 23	13.1
0169_01	25000 ppm	Day : 5	13.8
0169_01	25000 ppm	Day : 23	13.7
0170_01	25000 ppm	Day : 5	11.0
0170_01	25000 ppm	Day : 23	4.6
0171_01	50000 ppm	Day : 5	12.0
0171_01	50000 ppm	Day : 23	12.2
0172_01	50000 ppm	Day : 5	17.1
0172_01	50000 ppm	Day : 23	10.2
0173_01	50000 ppm	Day : 5	14.5
0173_01	50000 ppm	Day : 23	6.8
0174_01	50000 ppm	Day : 5	13.6
0174_01	50000 ppm	Day : 23	11.6
0175_01	50000 ppm	Day : 5	7.6
0175_01	50000 ppm	Day : 23	12.5
0176_01	50000 ppm	Day : 5	12.3
0176_01	50000 ppm	Day : 23	5.1
0177_01	50000 ppm	Day : 5	9.9
0177_01	50000 ppm	Day : 23	11.8
0178_01	50000 ppm	Day : 5	14.0
0178_01	50000 ppm	Day : 23	10.9

**Experiment Number:** 20008-01

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

**P42: Clinical Chemistry Data**

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

**Time Report Requested:** 15:38:50

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

**Lab:** NA

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**MALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0179_01	50000 ppm	Day : 5	12.3
0179_01	50000 ppm	Day : 23	10.1
0180_01	50000 ppm	Day : 5	10.3
0180_01	50000 ppm	Day : 23	10.2

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0061_01	0 ppm	Day : 93	4.7	157	48	19.6
0062_01	0 ppm	Day : 93	4.7	171	113	28.1
0063_01	0 ppm	Day : 93	4.5	178	88	19.2
0064_01	0 ppm	Day : 93	5.1	172	58	26.9
0065_01	0 ppm	Day : 93	4.7	174	79	26.0
0066_01	0 ppm	Day : 93	4.2	178	51	31.6
0067_01	0 ppm	Day : 93	4.7	171	88	20.6
0068_01	0 ppm	Day : 93	4.7	188	89	20.2
0069_01	0 ppm	Day : 93	4.7	144	69	31.1
0070_01	0 ppm	Day : 93	4.9	157	83	43.0
0071_01	3125 ppm	Day : 93	4.9	162	94	39.8
0072_01	3125 ppm	Day : 93	5.1	150	61	47.7
0073_01	3125 ppm	Day : 93	4.9	135	88	45.7
0074_01	3125 ppm	Day : 93	5.0	167	106	51.9
0075_01	3125 ppm	Day : 93	4.9	193	138	36.0
0076_01	3125 ppm	Day : 93	4.8	168	60	24.7
0077_01	3125 ppm	Day : 93	4.7	200	106	19.3
0078_01	3125 ppm	Day : 93	5.0	164	108	30.3
0079_01	3125 ppm	Day : 93	5.1	145	79	30.8
0080_01	3125 ppm	Day : 93	4.5	153	101	23.4
0081_01	6250 ppm	Day : 93	4.7	178	54	14.1
0082_01	6250 ppm	Day : 93	4.9	203	99	18.6

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**FEMALE**


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Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0083_01	6250 ppm	Day : 93	4.7	172	64	17.2
0084_01	6250 ppm	Day : 93	5.1	205	111	20.3
0085_01	6250 ppm	Day : 93	5.1	153	98	20.5
0086_01	6250 ppm	Day : 93	4.8	170	86	69.2
0087_01	6250 ppm	Day : 93	4.8	153	93	30.5
0088_01	6250 ppm	Day : 93	5.3	132	59	34.6
0089_01	6250 ppm	Day : 93	5.0	151	35	43.2
0090_01	6250 ppm	Day : 93	4.9	178	161	64.5
0091_01	12500 ppm	Day : 93	4.8	179	57	13.8
0092_01	12500 ppm	Day : 93	4.6	136	44	13.9
0093_01	12500 ppm	Day : 93	4.8	153	36	12.6
0094_01	12500 ppm	Day : 93	5.0	158	65	31.4
0095_01	12500 ppm	Day : 93	5.3	169	38	18.0
0096_01	12500 ppm	Day : 93	4.4	174	70	18.8
0097_01	12500 ppm	Day : 93	4.7	173	37	19.5
0098_01	12500 ppm	Day : 93	4.9	181	63	26.8
0099_01	12500 ppm	Day : 93	4.6	169	65	27.9
0100_01	12500 ppm	Day : 93	4.9	170	58	13.9
0101_01	25000 ppm	Day : 93	4.6	180	36	9.9
0102_01	25000 ppm	Day : 93	4.8	171	65	38.8
0103_01	25000 ppm	Day : 93	4.5	188	85	18.9
0104_01	25000 ppm	Day : 93	4.8	173	51	16.1

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0104_01	25000 ppm	Day : 93	4.8	173	51	16.1
0105_01	25000 ppm	Day : 93	4.5	169	66	16.8
0106_01	25000 ppm	Day : 93	4.3	215	52	20.9
0107_01	25000 ppm	Day : 93	5.1	190	58	26.4
0108_01	25000 ppm	Day : 93	4.6	190	51	21.8
0109_01	25000 ppm	Day : 93	4.9	196	55	13.2
0110_01	25000 ppm	Day : 93	4.6	203	47	19.8
0111_01	50000 ppm	Day : 93	4.5	165	47	27.1
0112_01	50000 ppm	Day : 93	4.4	190	45	12.0
0113_01	50000 ppm	Day : 93	4.6	164	50	10.8
0114_01	50000 ppm	Day : 93	4.6	148	48	15.6
0115_01	50000 ppm	Day : 93	4.6	149	51	13.2
0116_01	50000 ppm	Day : 93	4.7	190	50	16.1
0117_01	50000 ppm	Day : 93	4.6	192	44	11.6
0118_01	50000 ppm	Day : 93	4.8	201	66	14.2
0119_01	50000 ppm	Day : 93	4.5	177	56	17.5
0120_01	50000 ppm	Day : 93	4.4	165	62	13.5
0181_01	0 ppm	Day : 5	4.0	502	38	22.1
0181_01	0 ppm	Day : 23	4.5	323	41	21.9
0182_01	0 ppm	Day : 5	4.0	597	63	28.9
0182_01	0 ppm	Day : 23	4.5	372	42	15.3
0183_01	0 ppm	Day : 5	4.5	576	44	22.7

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0183_01	0 ppm	Day : 23	4.5	363	44	21.3
0184_01	0 ppm	Day : 5	4.2	542	42	22.1
0184_01	0 ppm	Day : 23	4.8	272	38	18.7
0185_01	0 ppm	Day : 5	3.9	651	59	37.1
0185_01	0 ppm	Day : 23	4.4	387	37	18.4
0186_01	0 ppm	Day : 5	4.0	489	44	16.9
0186_01	0 ppm	Day : 23	4.2	316	37	15.3
0187_01	0 ppm	Day : 5	4.4	647	65	33.5
0187_01	0 ppm	Day : 23	4.5	392	41	23.7
0188_01	0 ppm	Day : 5	4.1	595	42	24.6
0188_01	0 ppm	Day : 23	4.8	301	42	22.1
0189_01	0 ppm	Day : 5	3.8	626	55	26.5
0189_01	0 ppm	Day : 23	4.5	317	40	12.8
0190_01	0 ppm	Day : 5	4.0	608	64	24.2
0190_01	0 ppm	Day : 23	4.4	346	38	20.0
0191_01	3125 ppm	Day : 5	3.9	560	51	26.3
0191_01	3125 ppm	Day : 23	4.3	331	34	18.3
0192_01	3125 ppm	Day : 5	4.2	617	67	28.4
0192_01	3125 ppm	Day : 23	4.3	395	39	14.2
0193_01	3125 ppm	Day : 5	4.2	569	41	28.1
0193_01	3125 ppm	Day : 23	4.7	358	37	14.8
0194_01	3125 ppm	Day : 5	4.0	672	62	43.3



## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0194_01	3125 ppm	Day : 5	4.0	672	62	43.3
0194_01	3125 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0195_01	3125 ppm	Day : 5	4.2	528	31	22.7
0195_01	3125 ppm	Day : 23	4.6	331	39	20.6
0196_01	3125 ppm	Day : 5	4.0	521	31	19.5
0196_01	3125 ppm	Day : 23	4.7	328	36	19.8
0197_01	3125 ppm	Day : 5	4.2	670	59	38.4
0197_01	3125 ppm	Day : 23	4.5	404	37	20.1
0198_01	3125 ppm	Day : 5	4.3	529	57	22.9
0198_01	3125 ppm	Day : 23	4.4	357	39	15.1
0199_01	3125 ppm	Day : 5	4.3	523	44	19.0
0199_01	3125 ppm	Day : 23	4.4	305	38	18.0
0200_01	3125 ppm	Day : 5	3.9	691	66	25.7
0200_01	3125 ppm	Day : 23	4.5	376	40	12.2
0201_01	6250 ppm	Day : 5	4.0	502	32	26.5
0201_01	6250 ppm	Day : 23	4.4	315	33	19.2
0202_01	6250 ppm	Day : 5	DEAD	DEAD	DEAD	DEAD
0202_01	6250 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0203_01	6250 ppm	Day : 5	4.1	604	50	25.3
0203_01	6250 ppm	Day : 23	4.6	325	43	32.5
0204_01	6250 ppm	Day : 5	4.1	601	43	32.4
0204_01	6250 ppm	Day : 23	4.4	343	37	18.3

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0205_01	6250 ppm	Day : 5	4.2	553	31	QNS
0205_01	6250 ppm	Day : 23	4.4	315	32	14.3
0206_01	6250 ppm	Day : 5	4.3	606	44	33.8
0206_01	6250 ppm	Day : 23	4.5	371	40	16.8
0207_01	6250 ppm	Day : 5	3.8	659	62	22.3
0207_01	6250 ppm	Day : 23	4.7	417	47	14.9
0208_01	6250 ppm	Day : 5	3.9	694	63	40.8
0208_01	6250 ppm	Day : 23	4.4	365	37	25.9
0209_01	6250 ppm	Day : 5	4.2	523	52	18.8
0209_01	6250 ppm	Day : 23	4.5	336	36	11.2
0210_01	6250 ppm	Day : 5	4.2	565	45	24.3
0210_01	6250 ppm	Day : 23	4.7	350	33	16.5
0211_01	12500 ppm	Day : 5	4.2	628	61	22.2
0211_01	12500 ppm	Day : 23	4.4	365	38	16.8
0212_01	12500 ppm	Day : 5	4.3	558	52	19.4
0212_01	12500 ppm	Day : 23	4.5	371	42	19.3
0213_01	12500 ppm	Day : 5	3.8	659	63	29.0
0213_01	12500 ppm	Day : 23	4.5	352	45	17.1
0214_01	12500 ppm	Day : 5	4.2	591	21	11.4
0214_01	12500 ppm	Day : 23	4.6	318	37	15.2
0215_01	12500 ppm	Day : 5	4.1	573	48	11.6
0215_01	12500 ppm	Day : 23	4.4	317	38	14.2

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0215_01	12500 ppm	Day : 23	4.4	317	38	14.2
0216_01	12500 ppm	Day : 5	4.1	552	47	28.5
0216_01	12500 ppm	Day : 23	4.2	332	41	18.6
0217_01	12500 ppm	Day : 5	4.4	597	64	23.7
0217_01	12500 ppm	Day : 23	4.4	379	44	20.2
0218_01	12500 ppm	Day : 5	4.5	536	46	24.4
0218_01	12500 ppm	Day : 23	4.6	343	45	15.1
0219_01	12500 ppm	Day : 5	4.2	662	58	28.1
0219_01	12500 ppm	Day : 23	4.4	406	46	16.8
0220_01	12500 ppm	Day : 5	4.1	620	65	27.6
0220_01	12500 ppm	Day : 23	4.3	378	34	27.8
0221_01	25000 ppm	Day : 5	3.8	720	72	28.4
0221_01	25000 ppm	Day : 23	4.4	396	42	13.7
0222_01	25000 ppm	Day : 5	4.1	795	76	31.8
0222_01	25000 ppm	Day : 23	4.5	395	39	14.8
0223_01	25000 ppm	Day : 5	4.3	555	60	21.4
0223_01	25000 ppm	Day : 23	4.5	357	38	13.0
0224_01	25000 ppm	Day : 5	4.6	577	14	QNS
0224_01	25000 ppm	Day : 23	4.7	346	47	12.2
0225_01	25000 ppm	Day : 5	4.1	538	41	17.4
0225_01	25000 ppm	Day : 23	4.4	318	38	12.1
0226_01	25000 ppm	Day : 5	4.4	596	63	14.8

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0226_01	25000 ppm	Day : 23	4.7	379	43	14.8
0227_01	25000 ppm	Day : 5	4.0	568	59	16.5
0227_01	25000 ppm	Day : 23	4.8	329	40	13.8
0228_01	25000 ppm	Day : 5	3.9	701	77	18.7
0228_01	25000 ppm	Day : 23	4.5	372	41	10.0
0229_01	25000 ppm	Day : 5	4.2	521	53	23.3
0229_01	25000 ppm	Day : 23	4.6	337	40	13.5
0230_01	25000 ppm	Day : 5	4.0	699	83	21.5
0230_01	25000 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0231_01	50000 ppm	Day : 5	4.2	567	85	19.1
0231_01	50000 ppm	Day : 23	4.3	344	45	12.4
0232_01	50000 ppm	Day : 5	4.1	646	98	23.4
0232_01	50000 ppm	Day : 23	4.3	359	47	12.0
0233_01	50000 ppm	Day : 5	4.3	569	85	18.8
0233_01	50000 ppm	Day : 23	4.5	342	50	12.7
0234_01	50000 ppm	Day : 5	4.2	493	37	QNS
0234_01	50000 ppm	Day : 23	4.5	325	47	12.3
0235_01	50000 ppm	Day : 5	4.0	596	97	28.0
0235_01	50000 ppm	Day : 23	4.4	347	47	12.3
0236_01	50000 ppm	Day : 5	4.0	519	82	16.2
0236_01	50000 ppm	Day : 23	4.1	333	52	14.6
0237_01	50000 ppm	Day : 5	4.4	589	83	23.7

Experiment Number: 20008-01  
Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014  
Time Report Requested: 15:38:50  
First Dose M/F: NA / NA  
Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Albumin g per dL	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0237_01	50000 ppm	Day : 5	4.4	589	83	23.7
0237_01	50000 ppm	Day : 23	4.3	329	52	11.1
0238_01	50000 ppm	Day : 5	4.1	722	117	16.5
0238_01	50000 ppm	Day : 23	4.6	383	50	13.4
0239_01	50000 ppm	Day : 5	4.4	528	85	17.8
0239_01	50000 ppm	Day : 23	4.5	297	49	12.7
0240_01	50000 ppm	Day : 5	4.0	527	79	25.1
0240_01	50000 ppm	Day : 23	4.4	323	52	14.6

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:50

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0061_01	0 ppm	Day : 93	17.7	634	0.7	6.4
0062_01	0 ppm	Day : 93	18.8	543	0.7	6.4
0063_01	0 ppm	Day : 93	17.5	474	0.6	6.4
0064_01	0 ppm	Day : 93	16.7	159	0.7	7.2
0065_01	0 ppm	Day : 93	16.1	300	0.7	6.6
0066_01	0 ppm	Day : 93	14.9	411	0.6	5.6
0067_01	0 ppm	Day : 93	13.3	213	0.7	6.7
0068_01	0 ppm	Day : 93	15.3	196	0.7	6.6
0069_01	0 ppm	Day : 93	16.7	294	0.7	6.5
0070_01	0 ppm	Day : 93	16.8	165	0.6	6.9
0071_01	3125 ppm	Day : 93	20.3	327	0.7	6.9
0072_01	3125 ppm	Day : 93	18.2	263	0.7	7.1
0073_01	3125 ppm	Day : 93	21.6	483	0.6	6.9
0074_01	3125 ppm	Day : 93	19.9	208	0.7	7.2
0075_01	3125 ppm	Day : 93	20.4	209	0.7	6.7
0076_01	3125 ppm	Day : 93	21.8	345	0.6	7.0
0077_01	3125 ppm	Day : 93	19.9	290	0.7	6.6
0078_01	3125 ppm	Day : 93	19.2	287	0.7	6.9
0079_01	3125 ppm	Day : 93	20.9	187	0.7	7.3
0080_01	3125 ppm	Day : 93	20.0	272	0.7	6.5
0081_01	6250 ppm	Day : 93	19.0	515	0.7	6.6
0082_01	6250 ppm	Day : 93	21.4	244	0.7	6.8

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**FEMALE**

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Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0083_01	6250 ppm	Day : 93	21.6	410	0.7	6.5
0084_01	6250 ppm	Day : 93	20.7	244	0.7	7.0
0085_01	6250 ppm	Day : 93	19.4	225	0.7	7.2
0086_01	6250 ppm	Day : 93	20.2	275	0.7	6.6
0087_01	6250 ppm	Day : 93	19.4	239	0.7	6.6
0088_01	6250 ppm	Day : 93	17.0	152	0.7	7.4
0089_01	6250 ppm	Day : 93	20.6	238	0.6	7.1
0090_01	6250 ppm	Day : 93	19.6	250	0.7	6.9
0091_01	12500 ppm	Day : 93	18.8	423	0.7	6.6
0092_01	12500 ppm	Day : 93	16.4	423	0.6	6.3
0093_01	12500 ppm	Day : 93	14.5	267	0.7	6.7
0094_01	12500 ppm	Day : 93	19.0	329	0.7	6.6
0095_01	12500 ppm	Day : 93	19.2	220	0.7	7.5
0096_01	12500 ppm	Day : 93	16.1	325	0.7	6.1
0097_01	12500 ppm	Day : 93	16.6	367	0.7	6.5
0098_01	12500 ppm	Day : 93	18.0	234	0.7	7.0
0099_01	12500 ppm	Day : 93	20.2	280	0.7	6.2
0100_01	12500 ppm	Day : 93	16.2	234	0.6	7.0
0101_01	25000 ppm	Day : 93	14.4	278	0.6	6.3
0102_01	25000 ppm	Day : 93	18.7	277	0.8	6.7
0103_01	25000 ppm	Day : 93	18.5	394	0.7	6.2
0104_01	25000 ppm	Day : 93	17.2	424	0.7	6.6

## FEMALE

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0105_01	25000 ppm	Day : 93	17.0	336	0.7	6.2
0106_01	25000 ppm	Day : 93	16.2	308	0.6	5.8
0107_01	25000 ppm	Day : 93	18.5	174	0.7	7.0
0108_01	25000 ppm	Day : 93	16.3	241	0.6	6.4
0109_01	25000 ppm	Day : 93	16.7	224	0.6	6.6
0110_01	25000 ppm	Day : 93	18.9	153	0.7	6.6
0111_01	50000 ppm	Day : 93	16.5	332	0.7	6.0
0112_01	50000 ppm	Day : 93	17.5	339	0.7	6.0
0113_01	50000 ppm	Day : 93	17.9	353	0.7	6.4
0114_01	50000 ppm	Day : 93	19.7	191	0.7	6.3
0115_01	50000 ppm	Day : 93	20.9	319	0.6	6.2
0116_01	50000 ppm	Day : 93	16.6	195	0.6	6.5
0117_01	50000 ppm	Day : 93	19.1	189	0.7	6.2
0118_01	50000 ppm	Day : 93	15.6	185	0.7	6.6
0119_01	50000 ppm	Day : 93	16.2	207	0.6	6.0
0120_01	50000 ppm	Day : 93	17.0	241	0.6	6.1
0181_01	0 ppm	Day : 5	14.6	495	0.5	5.4
0181_01	0 ppm	Day : 23	18.0	391	0.6	6.0
0182_01	0 ppm	Day : 5	13.9	489	0.4	5.2
0182_01	0 ppm	Day : 23	17.5	472	0.5	5.9
0183_01	0 ppm	Day : 5	14.8	385	0.5	6.5
0183_01	0 ppm	Day : 23	17.9	443	0.6	6.2



Experiment Number: 20008-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0184_01	0 ppm	Day : 5	13.6	263	0.5	5.9
0184_01	0 ppm	Day : 23	19.7	489	0.6	6.3
0185_01	0 ppm	Day : 5	11.1	292	0.5	5.2
0185_01	0 ppm	Day : 23	17.7	320	0.6	5.9
0186_01	0 ppm	Day : 5	13.9	373	0.5	5.4
0186_01	0 ppm	Day : 23	19.0	463	0.5	5.6
0187_01	0 ppm	Day : 5	10.9	405	0.5	6.3
0187_01	0 ppm	Day : 23	14.4	644	0.6	5.9
0188_01	0 ppm	Day : 5	12.4	484	0.6	5.9
0188_01	0 ppm	Day : 23	16.8	435	0.5	6.5
0189_01	0 ppm	Day : 5	11.0	489	0.5	5.3
0189_01	0 ppm	Day : 23	19.5	409	0.6	5.8
0190_01	0 ppm	Day : 5	11.4	316	0.5	5.3
0190_01	0 ppm	Day : 23	17.6	639	0.6	5.8
0191_01	3125 ppm	Day : 5	12.0	532	0.5	5.4
0191_01	3125 ppm	Day : 23	16.0	390	0.6	5.7
0192_01	3125 ppm	Day : 5	13.6	357	0.5	5.6
0192_01	3125 ppm	Day : 23	18.3	356	0.5	5.6
0193_01	3125 ppm	Day : 5	12.8	536	0.5	5.7
0193_01	3125 ppm	Day : 23	18.7	353	0.5	6.4
0194_01	3125 ppm	Day : 5	11.7	378	0.5	5.1
0194_01	3125 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD

Experiment Number: 20008-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0195_01	3125 ppm	Day : 5	15.0	387	0.5	5.8
0195_01	3125 ppm	Day : 23	17.2	364	0.6	6.1
0196_01	3125 ppm	Day : 5	12.4	214	0.5	5.5
0196_01	3125 ppm	Day : 23	14.8	432	0.5	6.2
0197_01	3125 ppm	Day : 5	12.2	387	0.5	5.9
0197_01	3125 ppm	Day : 23	17.2	496	0.6	6.0
0198_01	3125 ppm	Day : 5	13.6	480	0.5	5.7
0198_01	3125 ppm	Day : 23	15.7	367	0.5	5.7
0199_01	3125 ppm	Day : 5	12.1	298	0.6	5.8
0199_01	3125 ppm	Day : 23	19.5	396	0.6	5.9
0200_01	3125 ppm	Day : 5	12.4	417	0.4	5.4
0200_01	3125 ppm	Day : 23	19.4	520	0.5	6.0
0201_01	6250 ppm	Day : 5	13.3	357	0.5	5.5
0201_01	6250 ppm	Day : 23	16.3	474	0.5	5.8
0202_01	6250 ppm	Day : 5	DEAD	DEAD	DEAD	DEAD
0202_01	6250 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0203_01	6250 ppm	Day : 5	12.8	244	0.6	5.7
0203_01	6250 ppm	Day : 23	18.0	420	0.5	6.1
0204_01	6250 ppm	Day : 5	11.6	353	0.5	5.9
0204_01	6250 ppm	Day : 23	17.6	394	0.5	5.7
0205_01	6250 ppm	Day : 5	11.6	347	0.5	6.2
0205_01	6250 ppm	Day : 23	16.6	484	0.5	5.8

## FEMALE

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0206_01	6250 ppm	Day : 5	13.3	243	0.5	5.8
0206_01	6250 ppm	Day : 23	17.4	432	0.5	6.3
0207_01	6250 ppm	Day : 5	12.3	593	0.5	4.9
0207_01	6250 ppm	Day : 23	17.3	475	0.6	6.1
0208_01	6250 ppm	Day : 5	12.8	349	0.5	5.3
0208_01	6250 ppm	Day : 23	15.4	565	0.5	5.9
0209_01	6250 ppm	Day : 5	14.5	329	0.5	5.6
0209_01	6250 ppm	Day : 23	16.9	381	0.6	5.7
0210_01	6250 ppm	Day : 5	12.4	412	0.5	5.7
0210_01	6250 ppm	Day : 23	15.5	413	0.5	6.3
0211_01	12500 ppm	Day : 5	14.2	263	0.5	5.6
0211_01	12500 ppm	Day : 23	15.4	390	0.6	5.8
0212_01	12500 ppm	Day : 5	15.1	310	0.5	5.9
0212_01	12500 ppm	Day : 23	15.8	397	0.6	5.9
0213_01	12500 ppm	Day : 5	11.0	281	0.5	5.2
0213_01	12500 ppm	Day : 23	18.0	277	0.6	6.0
0214_01	12500 ppm	Day : 5	13.9	246	0.5	6.2
0214_01	12500 ppm	Day : 23	20.3	565	0.6	6.1
0215_01	12500 ppm	Day : 5	13.2	290	0.5	5.6
0215_01	12500 ppm	Day : 23	15.6	284	0.5	5.8
0216_01	12500 ppm	Day : 5	15.4	370	0.5	5.5
0216_01	12500 ppm	Day : 23	16.9	546	0.5	5.8

## FEMALE

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0217_01	12500 ppm	Day : 5	14.7	356	0.6	6.0
0217_01	12500 ppm	Day : 23	13.0	314	0.5	5.9
0218_01	12500 ppm	Day : 5	14.0	410	0.5	6.1
0218_01	12500 ppm	Day : 23	17.5	325	0.6	6.1
0219_01	12500 ppm	Day : 5	11.3	282	0.5	5.8
0219_01	12500 ppm	Day : 23	15.9	618	0.5	5.9
0220_01	12500 ppm	Day : 5	13.3	477	0.5	5.5
0220_01	12500 ppm	Day : 23	13.5	435	0.6	5.6
0221_01	25000 ppm	Day : 5	12.9	232	0.5	5.0
0221_01	25000 ppm	Day : 23	18.3	399	0.6	5.7
0222_01	25000 ppm	Day : 5	14.0	229	0.5	5.4
0222_01	25000 ppm	Day : 23	13.7	356	0.5	6.1
0223_01	25000 ppm	Day : 5	14.9	242	0.6	6.1
0223_01	25000 ppm	Day : 23	16.3	416	0.6	6.2
0224_01	25000 ppm	Day : 5	14.6	335	0.6	6.8
0224_01	25000 ppm	Day : 23	16.5	424	0.6	6.4
0225_01	25000 ppm	Day : 5	11.1	315	0.6	5.5
0225_01	25000 ppm	Day : 23	15.4	427	0.5	5.6
0226_01	25000 ppm	Day : 5	15.8	287	0.6	6.1
0226_01	25000 ppm	Day : 23	17.3	397	0.5	6.1
0227_01	25000 ppm	Day : 5	12.2	411	0.6	5.4
0227_01	25000 ppm	Day : 23	18.7	434	0.5	6.3

Experiment Number: 20008-01

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0228_01	25000 ppm	Day : 5	12.4	310	0.5	5.1
0228_01	25000 ppm	Day : 23	17.3	403	0.5	5.8
0229_01	25000 ppm	Day : 5	12.9	312	0.5	5.6
0229_01	25000 ppm	Day : 23	19.0	407	0.5	6.2
0230_01	25000 ppm	Day : 5	11.5	558	0.5	5.4
0230_01	25000 ppm	Day : 23	DEAD	DEAD	DEAD	DEAD
0231_01	50000 ppm	Day : 5	13.4	281	0.5	5.6
0231_01	50000 ppm	Day : 23	16.1	402	0.5	5.6
0232_01	50000 ppm	Day : 5	11.9	309	0.5	5.2
0232_01	50000 ppm	Day : 23	16.2	389	0.5	5.6
0233_01	50000 ppm	Day : 5	12.9	303	0.5	5.7
0233_01	50000 ppm	Day : 23	15.5	539	0.6	5.7
0234_01	50000 ppm	Day : 5	17.2	560	0.5	5.9
0234_01	50000 ppm	Day : 23	18.1	342	0.6	5.8
0235_01	50000 ppm	Day : 5	12.7	347	0.5	5.5
0235_01	50000 ppm	Day : 23	15.9	335	0.5	5.4
0236_01	50000 ppm	Day : 5	13.1	425	0.5	5.3
0236_01	50000 ppm	Day : 23	15.1	352	0.5	5.2
0237_01	50000 ppm	Day : 5	13.8	320	0.6	6.0
0237_01	50000 ppm	Day : 23	16.4	446	0.5	5.6
0238_01	50000 ppm	Day : 5	13.6	272	0.5	5.3
0238_01	50000 ppm	Day : 23	14.6	288	0.5	5.9

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	BUN mg per dL	Creatine Kinase IU per L	Creatinine U per L	Protein Total g per dL
0239_01	50000 ppm	Day : 5	16.4	249	0.6	5.8
0239_01	50000 ppm	Day : 23	16.3	358	0.5	5.7
0240_01	50000 ppm	Day : 5	12.7	262	0.5	5.3
0240_01	50000 ppm	Day : 23	15.5	415	0.5	5.5

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0061_01	0 ppm	Day : 93	9.8
0062_01	0 ppm	Day : 93	20.9
0063_01	0 ppm	Day : 93	17.1
0064_01	0 ppm	Day : 93	21.5
0065_01	0 ppm	Day : 93	18.5
0066_01	0 ppm	Day : 93	13.5
0067_01	0 ppm	Day : 93	26.4
0068_01	0 ppm	Day : 93	27.6
0069_01	0 ppm	Day : 93	13.4
0070_01	0 ppm	Day : 93	21.5
0071_01	3125 ppm	Day : 93	24.5
0072_01	3125 ppm	Day : 93	23.2
0073_01	3125 ppm	Day : 93	19.6
0074_01	3125 ppm	Day : 93	31.5
0075_01	3125 ppm	Day : 93	36.7
0076_01	3125 ppm	Day : 93	15.2
0077_01	3125 ppm	Day : 93	25.3
0078_01	3125 ppm	Day : 93	26.9
0079_01	3125 ppm	Day : 93	18.5
0080_01	3125 ppm	Day : 93	22.0
0081_01	6250 ppm	Day : 93	9.6
0082_01	6250 ppm	Day : 93	26.0

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0083_01	6250 ppm	Day : 93	12.6
0084_01	6250 ppm	Day : 93	28.7
0085_01	6250 ppm	Day : 93	23.9
0086_01	6250 ppm	Day : 93	28.1
0087_01	6250 ppm	Day : 93	28.7
0088_01	6250 ppm	Day : 93	18.7
0089_01	6250 ppm	Day : 93	9.5
0090_01	6250 ppm	Day : 93	42.8
0091_01	12500 ppm	Day : 93	21.9
0092_01	12500 ppm	Day : 93	7.6
0093_01	12500 ppm	Day : 93	14.0
0094_01	12500 ppm	Day : 93	17.5
0095_01	12500 ppm	Day : 93	14.4
0096_01	12500 ppm	Day : 93	19.7
0097_01	12500 ppm	Day : 93	7.1
0098_01	12500 ppm	Day : 93	16.6
0099_01	12500 ppm	Day : 93	22.4
0100_01	12500 ppm	Day : 93	14.0
0101_01	25000 ppm	Day : 93	13.0
0102_01	25000 ppm	Day : 93	23.2
0103_01	25000 ppm	Day : 93	19.0
0104_01	25000 ppm	Day : 93	18.1



Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0105_01	25000 ppm	Day : 93	21.7
0106_01	25000 ppm	Day : 93	17.3
0107_01	25000 ppm	Day : 93	21.5
0108_01	25000 ppm	Day : 93	14.3
0109_01	25000 ppm	Day : 93	14.8
0110_01	25000 ppm	Day : 93	13.3
0111_01	50000 ppm	Day : 93	23.7
0112_01	50000 ppm	Day : 93	14.1
0113_01	50000 ppm	Day : 93	14.6
0114_01	50000 ppm	Day : 93	16.5
0115_01	50000 ppm	Day : 93	10.8
0116_01	50000 ppm	Day : 93	18.6
0117_01	50000 ppm	Day : 93	13.2
0118_01	50000 ppm	Day : 93	23.5
0119_01	50000 ppm	Day : 93	14.6
0120_01	50000 ppm	Day : 93	16.4
0181_01	0 ppm	Day : 5	8.6
0181_01	0 ppm	Day : 23	12.3
0182_01	0 ppm	Day : 5	4.0
0182_01	0 ppm	Day : 23	11.6
0183_01	0 ppm	Day : 5	4.6
0183_01	0 ppm	Day : 23	10.3

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0184_01	0 ppm	Day : 5	5.8
0184_01	0 ppm	Day : 23	8.3
0185_01	0 ppm	Day : 5	ND
0185_01	0 ppm	Day : 23	9.4
0186_01	0 ppm	Day : 5	13.6
0186_01	0 ppm	Day : 23	12.3
0187_01	0 ppm	Day : 5	9.9
0187_01	0 ppm	Day : 23	17.4
0188_01	0 ppm	Day : 5	7.2
0188_01	0 ppm	Day : 23	11.6
0189_01	0 ppm	Day : 5	2.6
0189_01	0 ppm	Day : 23	12.9
0190_01	0 ppm	Day : 5	6.5
0190_01	0 ppm	Day : 23	10.1
0191_01	3125 ppm	Day : 5	4.2
0191_01	3125 ppm	Day : 23	12.3
0192_01	3125 ppm	Day : 5	8.9
0192_01	3125 ppm	Day : 23	13.0
0193_01	3125 ppm	Day : 5	4.2
0193_01	3125 ppm	Day : 23	15.6
0194_01	3125 ppm	Day : 5	ND
0194_01	3125 ppm	Day : 23	DEAD

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0195_01	3125 ppm	Day : 5	ND
0195_01	3125 ppm	Day : 23	10.4
0196_01	3125 ppm	Day : 5	4.0
0196_01	3125 ppm	Day : 23	11.7
0197_01	3125 ppm	Day : 5	12.8
0197_01	3125 ppm	Day : 23	15.5
0198_01	3125 ppm	Day : 5	4.1
0198_01	3125 ppm	Day : 23	12.3
0199_01	3125 ppm	Day : 5	9.8
0199_01	3125 ppm	Day : 23	17.3
0200_01	3125 ppm	Day : 5	9.2
0200_01	3125 ppm	Day : 23	7.0
0201_01	6250 ppm	Day : 5	11.6
0201_01	6250 ppm	Day : 23	7.5
0202_01	6250 ppm	Day : 5	DEAD
0202_01	6250 ppm	Day : 23	DEAD
0203_01	6250 ppm	Day : 5	4.2
0203_01	6250 ppm	Day : 23	11.2
0204_01	6250 ppm	Day : 5	4.4
0204_01	6250 ppm	Day : 23	13.9
0205_01	6250 ppm	Day : 5	ND
0205_01	6250 ppm	Day : 23	4.6

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0206_01	6250 ppm	Day : 5	2.6
0206_01	6250 ppm	Day : 23	14.9
0207_01	6250 ppm	Day : 5	5.7
0207_01	6250 ppm	Day : 23	14.8
0208_01	6250 ppm	Day : 5	6.7
0208_01	6250 ppm	Day : 23	14.9
0209_01	6250 ppm	Day : 5	10.9
0209_01	6250 ppm	Day : 23	10.0
0210_01	6250 ppm	Day : 5	9.9
0210_01	6250 ppm	Day : 23	13.1
0211_01	12500 ppm	Day : 5	12.0
0211_01	12500 ppm	Day : 23	13.2
0212_01	12500 ppm	Day : 5	8.9
0212_01	12500 ppm	Day : 23	10.6
0213_01	12500 ppm	Day : 5	ND
0213_01	12500 ppm	Day : 23	15.9
0214_01	12500 ppm	Day : 5	ND
0214_01	12500 ppm	Day : 23	6.6
0215_01	12500 ppm	Day : 5	ND
0215_01	12500 ppm	Day : 23	11.2
0216_01	12500 ppm	Day : 5	4.8
0216_01	12500 ppm	Day : 23	7.6

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0217_01	12500 ppm	Day : 5	10.9
0217_01	12500 ppm	Day : 23	16.0
0218_01	12500 ppm	Day : 5	10.4
0218_01	12500 ppm	Day : 23	14.4
0219_01	12500 ppm	Day : 5	3.4
0219_01	12500 ppm	Day : 23	4.2
0220_01	12500 ppm	Day : 5	5.4
0220_01	12500 ppm	Day : 23	12.5
0221_01	25000 ppm	Day : 5	7.7
0221_01	25000 ppm	Day : 23	12.1
0222_01	25000 ppm	Day : 5	9.2
0222_01	25000 ppm	Day : 23	14.8
0223_01	25000 ppm	Day : 5	6.1
0223_01	25000 ppm	Day : 23	14.9
0224_01	25000 ppm	Day : 5	ND
0224_01	25000 ppm	Day : 23	9.6
0225_01	25000 ppm	Day : 5	4.2
0225_01	25000 ppm	Day : 23	10.7
0226_01	25000 ppm	Day : 5	13.2
0226_01	25000 ppm	Day : 23	14.0
0227_01	25000 ppm	Day : 5	6.6
0227_01	25000 ppm	Day : 23	16.5

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0228_01	25000 ppm	Day : 5	11.5
0228_01	25000 ppm	Day : 23	11.5
0229_01	25000 ppm	Day : 5	2.6
0229_01	25000 ppm	Day : 23	12.9
0230_01	25000 ppm	Day : 5	11.6
0230_01	25000 ppm	Day : 23	DEAD
0231_01	50000 ppm	Day : 5	11.2
0231_01	50000 ppm	Day : 23	12.3
0232_01	50000 ppm	Day : 5	9.2
0232_01	50000 ppm	Day : 23	11.2
0233_01	50000 ppm	Day : 5	11.5
0233_01	50000 ppm	Day : 23	7.5
0234_01	50000 ppm	Day : 5	ND
0234_01	50000 ppm	Day : 23	11.7
0235_01	50000 ppm	Day : 5	4.0
0235_01	50000 ppm	Day : 23	8.5
0236_01	50000 ppm	Day : 5	11.5
0236_01	50000 ppm	Day : 23	11.0
0237_01	50000 ppm	Day : 5	13.7
0237_01	50000 ppm	Day : 23	7.0
0238_01	50000 ppm	Day : 5	12.9
0238_01	50000 ppm	Day : 23	17.9

Experiment Number: 20008-01

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/24/2014

Time Report Requested: 15:38:51

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	SDH IU per L
0239_01	50000 ppm	Day : 5	11.9
0239_01	50000 ppm	Day : 23	15.1
0240_01	50000 ppm	Day : 5	2.4
0240_01	50000 ppm	Day : 23	11.3

\*\* END OF REPORT \*\*