

**Experiment Number:** 05207-03

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

**P42: Clinical Chemistry Data**

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

**Time Report Requested:** 00:43:44

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

**Lab:** NA

**C Number:** C62248

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:44

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0001_03	0 ppm	Week : 13	4.2	1.5	387	49
0002_03	0 ppm	Week : 13	4	1.43	338	64
0003_03	0 ppm	Week : 13	3.9	1.39	316	59
0004_03	0 ppm	Week : 13	3.9	1.15	339	73
0005_03	0 ppm	Week : 13	4.1	1.41	329	50
0006_03	0 ppm	Week : 13	4.1	1.21	363	50
0007_03	0 ppm	Week : 13	4	1.38	355	73
0008_03	0 ppm	Week : 13	4.1	1.37	369	61
0009_03	0 ppm	Week : 13	4	1.54	332	45
0010_03	0 ppm	Week : 13	3.9	1.26	304	97
0011_03	0 ppm	Day : 4	3.5	1.75	993	47
0011_03	0 ppm	Day : 23	3.8	1.73	508	35
0012_03	0 ppm	Day : 4	3.4	1.55	963	46
0012_03	0 ppm	Day : 23	3.5	1.35	546	33
0013_03	0 ppm	Day : 4	3.5	1.52	899	48
0014_03	0 ppm	Day : 4	3.3	1.43	893	46
0015_03	0 ppm	Day : 4	3.2	1.19	1013	49
0015_03	0 ppm	Day : 23	3.5	1.4	609	39
0016_03	0 ppm	Day : 4	3.3	1.74	877	44
0016_03	0 ppm	Day : 23	3.6	1.33	508	38
0017_03	0 ppm	Day : 4	3.2	1.52	776	39
0017_03	0 ppm	Day : 23	3.6	1.29	507	37

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

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Time Report Requested: 00:43:44

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
0018_03	0 ppm	Day : 4	3.5	1.75	789	44
0018_03	0 ppm	Day : 23	3.6	1.38	573	35
0019_03	0 ppm	Day : 4	3.3	1.57	833	38
0019_03	0 ppm	Day : 23	3.9	1.56	615	33
0020_03	0 ppm	Day : 4	3.1	1.41	841	40
0020_03	0 ppm	Day : 23	3.5	1.46	567	32
0201_03	1.1 ppm	Week : 13	4.2	1.4	344	54
0202_03	1.1 ppm	Week : 13	4	1.33	363	47
0203_03	1.1 ppm	Week : 13	4.2	1.35	349	69
0204_03	1.1 ppm	Week : 13	4	1.38	323	47
0205_03	1.1 ppm	Week : 13	4	1.18	331	59
0206_03	1.1 ppm	Week : 13	4.2	1.27	361	76
0207_03	1.1 ppm	Week : 13	3.6	1.09	305	55
0208_03	1.1 ppm	Week : 13	4.2	1.68	344	61
0209_03	1.1 ppm	Week : 13	4.2	1.27	345	53
0210_03	1.1 ppm	Week : 13	4.1	1.28	318	53
0211_03	1.1 ppm	Day : 4	3.3	1.43	872	47
0211_03	1.1 ppm	Day : 23	3.5	1.3	580	34
0212_03	1.1 ppm	Day : 4	3.4	1.42	807	48
0212_03	1.1 ppm	Day : 23	3.7	1.54	496	36
0213_03	1.1 ppm	Day : 4	3.5	1.59	843	45
0213_03	1.1 ppm	Day : 23	3.7	1.61	560	33

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:44

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
0214_03	1.1 ppm	Day : 4	3.5	1.4	862	44
0214_03	1.1 ppm	Day : 23	3.9	1.63	586	34
0215_03	1.1 ppm	Day : 4	3.4	1.48	839	52
0215_03	1.1 ppm	Day : 23	3.8	1.46	524	33
0216_03	1.1 ppm	Day : 4	3.5	1.46	1163	55
0216_03	1.1 ppm	Day : 23	3.8	1.58	742	33
0217_03	1.1 ppm	Day : 4	3.3	1.32	903	45
0217_03	1.1 ppm	Day : 23	3.8	1.58	586	33
0218_03	1.1 ppm	Day : 4	3.4	1.62	985	51
0218_03	1.1 ppm	Day : 23	3.5	1.59	631	30
0219_03	1.1 ppm	Day : 4	3.5	1.67	828	43
0219_03	1.1 ppm	Day : 23	3.7	1.54	584	34
0220_03	1.1 ppm	Day : 4	3.3	1.57	871	47
0220_03	1.1 ppm	Day : 23	3.7	1.61	629	30
0401_03	2.3 ppm	Week : 13	4.4	1.63	413	52
0402_03	2.3 ppm	Week : 13	4.1	1.24	319	53
0403_03	2.3 ppm	Week : 13	4	1.29	296	81
0404_03	2.3 ppm	Week : 13	4.3	1.54	330	59
0405_03	2.3 ppm	Week : 13	4.1	1.52	280	43
0406_03	2.3 ppm	Week : 13	3.9	1.22	304	57
0407_03	2.3 ppm	Week : 13	4.2	1.4	326	58
0408_03	2.3 ppm	Week : 13	3.8	1.23	323	76

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:44

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
0409_03	2.3 ppm	Week : 13	4.2	1.35	352	61
0410_03	2.3 ppm	Week : 13	4.2	1.45	288	55
0411_03	2.3 ppm	Day : 4	3.6	1.57	757	44
0411_03	2.3 ppm	Day : 23	3.7	1.48	458	33
0412_03	2.3 ppm	Day : 4	3.5	1.59	844	46
0412_03	2.3 ppm	Day : 23	3.8	1.52	570	33
0413_03	2.3 ppm	Day : 4	3.4	1.31	798	48
0413_03	2.3 ppm	Day : 23	3.7	1.32	505	34
0414_03	2.3 ppm	Day : 4	3.5	1.52	844	48
0414_03	2.3 ppm	Day : 23	3.8	1.58	507	34
0415_03	2.3 ppm	Day : 4	3.5	1.52	905	63
0415_03	2.3 ppm	Day : 23	3.9	1.56	613	43
0416_03	2.3 ppm	Day : 4	3.3	1.43	895	51
0416_03	2.3 ppm	Day : 23	3.7	1.37	607	33
0417_03	2.3 ppm	Day : 4	3.6	1.64	732	47
0417_03	2.3 ppm	Day : 23	3.9	1.56	416	38
0418_03	2.3 ppm	Day : 4	3.2	1.45	861	52
0419_03	2.3 ppm	Day : 4	3.3	1.27	809	46
0419_03	2.3 ppm	Day : 23	3.9	1.63	594	34
0420_03	2.3 ppm	Day : 4	3.2	1.33	934	53
0420_03	2.3 ppm	Day : 23	3.7	1.23	613	38
0601_03	4.5 ppm	Week : 13	4.3	1.59	299	51

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Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0602_03	4.5 ppm	Week : 13	4	1.21	239	50
0603_03	4.5 ppm	Week : 13	3.8	1.15	307	50
0604_03	4.5 ppm	Week : 13	4.1	1.37	311	60
0605_03	4.5 ppm	Week : 13	4.4	1.33	309	50
0606_03	4.5 ppm	Week : 13	4.2	1.35	339	82
0607_03	4.5 ppm	Week : 13	4.2	1.45	320	60
0608_03	4.5 ppm	Week : 13	4	1.29	315	48
0609_03	4.5 ppm	Week : 13	4	1.21	242	45
0610_03	4.5 ppm	Week : 13	4.2	1.45	296	48
0611_03	4.5 ppm	Day : 4	3.3	1.43	694	50
0611_03	4.5 ppm	Day : 23	3.7	1.42	436	35
0612_03	4.5 ppm	Day : 4	3.5	1.59	770	50
0612_03	4.5 ppm	Day : 23	3.7	1.61	456	28
0613_03	4.5 ppm	Day : 4	3.4	1.55	859	48
0613_03	4.5 ppm	Day : 23	3.8	1.52	584	33
0614_03	4.5 ppm	Day : 4	3.3	1.38	873	55
0614_03	4.5 ppm	Day : 23	3.5	1.25	520	33
0615_03	4.5 ppm	Day : 4	3.3	1.38	882	65
0615_03	4.5 ppm	Day : 23	3.8	1.36	531	32
0616_03	4.5 ppm	Day : 4	3.5	1.46	890	56
0616_03	4.5 ppm	Day : 23	3.8	1.36	555	33
0617_03	4.5 ppm	Day : 4	3.4	1.36	713	51

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Species/Strain: Rat/Fischer 344

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0617_03	4.5 ppm	Day : 23	3.9	1.7	433	34
0618_03	4.5 ppm	Day : 4	3.3	1.27	904	59
0618_03	4.5 ppm	Day : 23	3.8	1.41	551	34
0619_03	4.5 ppm	Day : 4	3.3	1.43	804	50
0619_03	4.5 ppm	Day : 23	3.8	1.52	575	31
0620_03	4.5 ppm	Day : 4	3.5	1.52	762	47
0620_03	4.5 ppm	Day : 23	4.1	1.78	476	32
0801_03	9 ppm	Week : 13	4.2	1.45	299	42
0802_03	9 ppm	Week : 13	4	1.25	288	45
0803_03	9 ppm	Week : 13	4.2	1.27	296	47
0804_03	9 ppm	Week : 13	4.4	1.63	311	50
0805_03	9 ppm	Week : 13	4.4	1.69	334	50
0806_03	9 ppm	Week : 13	4.4	1.47	262	56
0807_03	9 ppm	Week : 13	4.1	1.37	270	54
0808_03	9 ppm	Week : 13	4.3	1.34	249	48
0809_03	9 ppm	Week : 13	4.4	1.38	322	50
0810_03	9 ppm	Week : 13	4.5	1.45	312	45
0811_03	9 ppm	Day : 4	3.4	1.48	778	47
0811_03	9 ppm	Day : 23	3.9	1.26	409	34
0812_03	9 ppm	Day : 4	3.3	1.5	874	56
0812_03	9 ppm	Day : 23	3.8	1.58	504	37
0813_03	9 ppm	Day : 4	3.4	1.31	808	53

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P42: Clinical Chemistry Data

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0813_03	9 ppm	Day : 23	3.8	1.36	443	57
0814_03	9 ppm	Day : 4	3.6	1.64	910	79
0814_03	9 ppm	Day : 23	3.9	1.39	588	38
0815_03	9 ppm	Day : 4	3.3	1.32	948	57
0815_03	9 ppm	Day : 23	3.9	1.5	518	38
0816_03	9 ppm	Day : 4	3.4	1.55	860	59
0816_03	9 ppm	Day : 23	4.4	1.69	467	40
0817_03	9 ppm	Day : 4	3.4	1.62	890	59
0817_03	9 ppm	Day : 23	3.7	1.37	434	32
0818_03	9 ppm	Day : 4	3.4	1.55	728	53
0818_03	9 ppm	Day : 23	4	1.67	415	33
0819_03	9 ppm	Day : 4	3.7	1.61	759	47
0819_03	9 ppm	Day : 23	3.7	1.16	520	39
0820_03	9 ppm	Day : 4	3.7	1.76	915	55
0820_03	9 ppm	Day : 23	4	1.48	525	39
1001_03	18 ppm	Week : 13	4.2	1.35	314	54
1002_03	18 ppm	Week : 13	4.3	1.48	305	52
1003_03	18 ppm	Week : 13	4.2	1.35	271	54
1004_03	18 ppm	Week : 13	4.2	1.17	282	51
1005_03	18 ppm	Week : 13	4.4	1.26	334	42
1006_03	18 ppm	Week : 13	4.3	1.39	269	58
1007_03	18 ppm	Week : 13	4.2	1.35	279	56



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P42: Clinical Chemistry Data

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Time Report Requested: 00:43:45

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
1008_03	18 ppm	Week : 13	4.5	1.45	291	69
1009_03	18 ppm	Week : 13	4.5	1.29	365	51
1010_03	18 ppm	Week : 13	4.4	1.38	265	59
1011_03	18 ppm	Day : 4	3.1	1.63	1187	226
1011_03	18 ppm	Day : 23	4	1.67	504	53
1012_03	18 ppm	Day : 4	3.1	1.72	1134	196
1012_03	18 ppm	Day : 23	4.1	1.71	531	39
1013_03	18 ppm	Day : 4	3.2	1.52	1066	130
1014_03	18 ppm	Day : 4	3.3	1.65	1080	223
1014_03	18 ppm	Day : 23	3.9	1.3	454	41
1015_03	18 ppm	Day : 4	3.2	1.52	917	221
1016_03	18 ppm	Day : 4	3.5	2.06	1045	232
1016_03	18 ppm	Day : 23	3.8	1.46	480	46
1017_03	18 ppm	Day : 4	3.1	1.72	1205	265
1017_03	18 ppm	Day : 23	3.8	1.27	478	60
1018_03	18 ppm	Day : 4	3.4	1.7	872	163
1018_03	18 ppm	Day : 23	4	1.38	541	44
1019_03	18 ppm	Day : 4	3.2	1.78	1060	334
1020_03	18 ppm	Day : 4	3.6	1.5	886	134

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0001_03	0 ppm	Week : 13	20.8	0.2	0.1	18
0002_03	0 ppm	Week : 13	18.4	0.1	0.3	22
0003_03	0 ppm	Week : 13	17.5	0.1	0.2	17
0004_03	0 ppm	Week : 13	17.6	0.1	0.2	22
0005_03	0 ppm	Week : 13	18.4	0.1	0.1	17
0006_03	0 ppm	Week : 13	18.2	0.2	0.3	21
0007_03	0 ppm	Week : 13	23	0.1	0.3	22
0008_03	0 ppm	Week : 13	19	0.3	0.6*	23
0009_03	0 ppm	Week : 13	18.9	0.1	0.2	17
0010_03	0 ppm	Week : 13	18.6	0	0.2	17
0011_03	0 ppm	Day : 4	19.7	0.1	0.3	14
0011_03	0 ppm	Day : 23	12.7	0.1	0.2	13
0012_03	0 ppm	Day : 4	18.7	0.1	0.3	12
0012_03	0 ppm	Day : 23	14.5	0	0.2	13
0013_03	0 ppm	Day : 4	18.7	0	0.3	13
0014_03	0 ppm	Day : 4	18.6	0	0.3	11
0015_03	0 ppm	Day : 4	17.3	0	0.3	11
0015_03	0 ppm	Day : 23	22	0	0.2	14
0016_03	0 ppm	Day : 4	20.4	0.1	0.3	17
0016_03	0 ppm	Day : 23	14.8	0	0.2	16
0017_03	0 ppm	Day : 4	25.2	0.1	0.2	18
0017_03	0 ppm	Day : 23	19.6	0	0.2	18

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0018_03	0 ppm	Day : 4	19.5	0.1	0.3	17
0018_03	0 ppm	Day : 23	19.5	0	0.1	15
0019_03	0 ppm	Day : 4	16.3	0.1	0.2	15
0019_03	0 ppm	Day : 23	19.7	0	0.2	15
0020_03	0 ppm	Day : 4	15.3	0.1	0.3	18
0020_03	0 ppm	Day : 23	13.2	0	0.1	14
0201_03	1.1 ppm	Week : 13	22.8	0.1	0.4	21
0202_03	1.1 ppm	Week : 13	19.7	0.2	0.2	20
0203_03	1.1 ppm	Week : 13	20	0	0.2	22
0204_03	1.1 ppm	Week : 13	17.2	0.1	0.2	22
0205_03	1.1 ppm	Week : 13	18.3	0	0.2	21
0206_03	1.1 ppm	Week : 13	25.5	0.1	0.2	19
0207_03	1.1 ppm	Week : 13	30.3	0.2	0.2	18
0208_03	1.1 ppm	Week : 13	19.4	0.1	0.3	21
0209_03	1.1 ppm	Week : 13	19.3	0.1	0.2	17
0210_03	1.1 ppm	Week : 13	27	0.1	0.2	23
0211_03	1.1 ppm	Day : 4	17.6	0	0.3	15
0211_03	1.1 ppm	Day : 23	16	0	0.2	11
0212_03	1.1 ppm	Day : 4	32.6	0	0.3	14
0212_03	1.1 ppm	Day : 23	15.6	0	0.2	13
0213_03	1.1 ppm	Day : 4	17.5	0	0.2	14
0213_03	1.1 ppm	Day : 23	15.3	0	0.2	14

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0213_03	1.1 ppm	Day : 23	15.3	0	0.2	14
0214_03	1.1 ppm	Day : 4	22.1	0	0.3	14
0214_03	1.1 ppm	Day : 23	31.1	0	0.2	13
0215_03	1.1 ppm	Day : 4	24.4	0	0.2	13
0215_03	1.1 ppm	Day : 23	23.3	0.1	0.2	14
0216_03	1.1 ppm	Day : 4	26.5	0.1	0.3	13
0216_03	1.1 ppm	Day : 23	19.2	0	0.2	15
0217_03	1.1 ppm	Day : 4	26.7	0.1	0.3	17
0217_03	1.1 ppm	Day : 23	19.2	0.1	0.2	17
0218_03	1.1 ppm	Day : 4	35.5	0	0.3	15
0218_03	1.1 ppm	Day : 23	15.1	0	0.1	12
0219_03	1.1 ppm	Day : 4	17.2	0	0.3	14
0219_03	1.1 ppm	Day : 23	17.1	0	0.2	14
0220_03	1.1 ppm	Day : 4	21.3	0	0.3	15
0220_03	1.1 ppm	Day : 23	16.9	0	0.2	14
0401_03	2.3 ppm	Week : 13	22	0.1	0.1	19
0402_03	2.3 ppm	Week : 13	19.3	0.1	0.3	21
0403_03	2.3 ppm	Week : 13	24.8	0.2	0.3	20
0404_03	2.3 ppm	Week : 13	19.7	0.1	0.2	17
0405_03	2.3 ppm	Week : 13	20.3	0.1	0.2	20
0406_03	2.3 ppm	Week : 13	25	0.1	0.1	20
0407_03	2.3 ppm	Week : 13	5.5*	0.1	0.2	16

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0408_03	2.3 ppm	Week : 13	21.8	0.2	0.3	21
0409_03	2.3 ppm	Week : 13	22	0.1	0.3	24
0410_03	2.3 ppm	Week : 13	23.4	0.1	0.1	21
0411_03	2.3 ppm	Day : 4	18.6	0	0.3	15
0411_03	2.3 ppm	Day : 23	16.2	0	0.2	11
0412_03	2.3 ppm	Day : 4	18.1	0	0.2	14
0412_03	2.3 ppm	Day : 23	16.6	0	0.2	13
0413_03	2.3 ppm	Day : 4	22.8	0	0.3	15
0413_03	2.3 ppm	Day : 23	19.2	0	0.2	14
0414_03	2.3 ppm	Day : 4	21.8	0	0.2	15
0414_03	2.3 ppm	Day : 23	26.5	0	0.2	15
0415_03	2.3 ppm	Day : 4	20.1	0.1	0.3	15
0415_03	2.3 ppm	Day : 23	21.2	0.1	0.2	16
0416_03	2.3 ppm	Day : 4	23.7	0	0.2	13
0416_03	2.3 ppm	Day : 23	21.2	0	0.2	13
0417_03	2.3 ppm	Day : 4	35	0	0.2	15
0417_03	2.3 ppm	Day : 23	22.4	0	0.2	20
0418_03	2.3 ppm	Day : 4	21.3	0	0.2	14
0419_03	2.3 ppm	Day : 4	22.9	0	0.2	13
0419_03	2.3 ppm	Day : 23	19.2	0.1	0.2	15
0420_03	2.3 ppm	Day : 4	22.3	0	0.2	15
0420_03	2.3 ppm	Day : 23	22.2	0	0.2	14

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0420_03	2.3 ppm	Day : 23	22.2	0	0.2	14
0601_03	4.5 ppm	Week : 13	19.4	0.1	0.2	20
0602_03	4.5 ppm	Week : 13	19.2	0.1	0.2	17
0603_03	4.5 ppm	Week : 13	23	0.1	0.3	20
0604_03	4.5 ppm	Week : 13	19.9	0.1	0.2	18
0605_03	4.5 ppm	Week : 13	21.8	0.2	0.5	22
0606_03	4.5 ppm	Week : 13	38.2	0.1	0.3	22
0607_03	4.5 ppm	Week : 13	19.2	0.1	0.1	19
0608_03	4.5 ppm	Week : 13	25.6	0.2	0.3	20
0609_03	4.5 ppm	Week : 13	19.5	0.2	0.3	18
0610_03	4.5 ppm	Week : 13	21.8	0.1	0.2	17
0611_03	4.5 ppm	Day : 4	24.9	0	0.2	19
0611_03	4.5 ppm	Day : 23	15.5	0	0.2	14
0612_03	4.5 ppm	Day : 4	20.7	0	0.2	15
0612_03	4.5 ppm	Day : 23	18.4	0.1	0.2	15
0613_03	4.5 ppm	Day : 4	20.7	0	0.2	15
0613_03	4.5 ppm	Day : 23	20.1	0	0.2	14
0614_03	4.5 ppm	Day : 4	24.2	0.1	0.2	15
0614_03	4.5 ppm	Day : 23	21.4	0	0.2	12
0615_03	4.5 ppm	Day : 4	28	0	0.2	14
0615_03	4.5 ppm	Day : 23	22.1	0	0.2	14
0616_03	4.5 ppm	Day : 4	26.2	0	0.2	16

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0616_03	4.5 ppm	Day : 23	19.5	0	0.2	13
0617_03	4.5 ppm	Day : 4	28.7	0	0.2	14
0617_03	4.5 ppm	Day : 23	14.1	0.1	0.2	12
0618_03	4.5 ppm	Day : 4	27.9	0	0.2	15
0618_03	4.5 ppm	Day : 23	19.1	0	0.2	14
0619_03	4.5 ppm	Day : 4	23.1	0.1	0.2	15
0619_03	4.5 ppm	Day : 23	17.1	0.1	0.2	14
0620_03	4.5 ppm	Day : 4	22.6	0	0.2	16
0620_03	4.5 ppm	Day : 23	19.5	0	0.2	14
0801_03	9 ppm	Week : 13	19.6	0.2	0.4	20
0802_03	9 ppm	Week : 13	24	0.2	0.3	17
0803_03	9 ppm	Week : 13	20.6	0.1	0.3	21
0804_03	9 ppm	Week : 13	24.3	0.2	0.2	18
0805_03	9 ppm	Week : 13	27.3	0.2	0.3	21
0806_03	9 ppm	Week : 13	22.6	0.1	0.2	17
0807_03	9 ppm	Week : 13	21.7	0.1	0.2	19
0808_03	9 ppm	Week : 13	23.7	0.1	0.3	18
0809_03	9 ppm	Week : 13	20.4	0	0.2	18
0810_03	9 ppm	Week : 13	19.2	0.1	0.3	22
0811_03	9 ppm	Day : 4	21.7	0	0.2	16
0811_03	9 ppm	Day : 23	24.8	0	0.2	14
0812_03	9 ppm	Day : 4	27.4	0	0.2	15

## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0812_03	9 ppm	Day : 4	27.4	0	0.2	15
0812_03	9 ppm	Day : 23	15.5	0	0.2	14
0813_03	9 ppm	Day : 4	28.8	0.1	0.3	16
0813_03	9 ppm	Day : 23	42.5	0.1	0.2	15
0814_03	9 ppm	Day : 4	27.7	0.1	0.3	15
0814_03	9 ppm	Day : 23	17.5	0.1	0.3	16
0815_03	9 ppm	Day : 4	30.6	0.1	0.3	19
0815_03	9 ppm	Day : 23	17.9	0	0.2	15
0816_03	9 ppm	Day : 4	24.4	0.1	0.2	18
0816_03	9 ppm	Day : 23	22.8	0.1	0.2	17
0817_03	9 ppm	Day : 4	30.7	0.1	0.3	14
0817_03	9 ppm	Day : 23	17.5	0	0.2	13
0818_03	9 ppm	Day : 4	22	0	0.2	17
0818_03	9 ppm	Day : 23	17.2	0	0.2	17
0819_03	9 ppm	Day : 4	24.4	0	0.3	18
0819_03	9 ppm	Day : 23	17.2	0	0.2	15
0820_03	9 ppm	Day : 4	34.5	0.1	0.3	16
0820_03	9 ppm	Day : 23	25.8	0	0.2	15
1001_03	18 ppm	Week : 13	21.2	0.3	0.6	21
1002_03	18 ppm	Week : 13	21.3	0.3	0.5	21
1003_03	18 ppm	Week : 13	20.8	0.1	0.2	18
1004_03	18 ppm	Week : 13	17.2	0.2	0.4	20



## MALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
1005_03	18 ppm	Week : 13	19.4	0.3	0.5	22
1006_03	18 ppm	Week : 13	17.6	0.1	0.2	15
1007_03	18 ppm	Week : 13	17.8	0.1	0.3	20
1008_03	18 ppm	Week : 13	21.2	0.1	0.3	19
1009_03	18 ppm	Week : 13	22.3	0.2	0.4	24
1010_03	18 ppm	Week : 13	25.7	0.1	0.2	18
1011_03	18 ppm	Day : 4	86.1	0.3	0.7	13
1011_03	18 ppm	Day : 23	36.4*	0	0.2	17
1012_03	18 ppm	Day : 4	86.5	0.3	0.7	13
1012_03	18 ppm	Day : 23	13.4	0	0.2	18
1013_03	18 ppm	Day : 4	57.4	0.2	0.4	12
1014_03	18 ppm	Day : 4	103.2	0.3	0.7	13
1014_03	18 ppm	Day : 23	12.6	0	0.2	17
1015_03	18 ppm	Day : 4	62.3	0.2	0.5	14
1016_03	18 ppm	Day : 4	72.1	0.3	0.7	12
1016_03	18 ppm	Day : 23	11.3	0	0.2	16
1017_03	18 ppm	Day : 4	89.4	0.3	0.7	12
1017_03	18 ppm	Day : 23	17.7	0	0.2	14
1018_03	18 ppm	Day : 4	73.1	0.3	0.6	12
1018_03	18 ppm	Day : 23	14.6	0	0.3	17
1019_03	18 ppm	Day : 4	234.8*	0.4	0.9	17
1020_03	18 ppm	Day : 4	48.6	0.2	0.5	20

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:45

First Dose M/F: NA / NA

Lab: NA

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**MALE**

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Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
1020_03	18 ppm	Day : 4	48.6	0.2	0.5	20

Experiment Number: 05207-03

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 00:43:45

First Dose M/F: NA / NA

Lab: NA

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**MALE**


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Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0001_03	0 ppm	Week : 13	63	0.6	2.8	7
0002_03	0 ppm	Week : 13	150	0.6	2.8	6.8
0003_03	0 ppm	Week : 13	67	0.6	2.8	6.7
0004_03	0 ppm	Week : 13	171	0.6	3.4	7.3
0005_03	0 ppm	Week : 13	75	0.6	2.9	7
0006_03	0 ppm	Week : 13	188	0.7	3.4	7.5
0007_03	0 ppm	Week : 13	126	0.7	2.9	6.9
0008_03	0 ppm	Week : 13	192	0.6	3	7.1
0009_03	0 ppm	Week : 13	122	0.6	2.6	6.6
0010_03	0 ppm	Week : 13	85	0.6	3.1	7
0011_03	0 ppm	Day : 4	487	0.6	2	5.5
0011_03	0 ppm	Day : 23	316	0.5	2.2	6
0012_03	0 ppm	Day : 4	537	0.6	2.2	5.6
0012_03	0 ppm	Day : 23	373	0.5	2.6	6.1
0013_03	0 ppm	Day : 4	429	0.6	2.3	5.8
0014_03	0 ppm	Day : 4	549	0.6	2.3	5.6
0015_03	0 ppm	Day : 4	344	0.6	2.7	5.9
0015_03	0 ppm	Day : 23	273	0.6	2.5	6
0016_03	0 ppm	Day : 4	315	0.7	1.9	5.2
0016_03	0 ppm	Day : 23	250	0.5	2.7	6.3
0017_03	0 ppm	Day : 4	444	0.6	2.1	5.3
0017_03	0 ppm	Day : 23	185	0.5	2.8	6.4

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:45

First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0018_03	0 ppm	Day : 4	673	0.7	2	5.5
0018_03	0 ppm	Day : 23	282	0.6	2.6	6.2
0019_03	0 ppm	Day : 4	335	0.6	2.1	5.4
0019_03	0 ppm	Day : 23	307	0.6	2.5	6.4
0020_03	0 ppm	Day : 4	443	0.7	2.2	5.3
0020_03	0 ppm	Day : 23	371	0.5	2.4	5.9
0201_03	1.1 ppm	Week : 13	149	0.6	3	7.2
0202_03	1.1 ppm	Week : 13	89	0.6	3	7
0203_03	1.1 ppm	Week : 13	123	0.6	3.1	7.3
0204_03	1.1 ppm	Week : 13	113	0.6	2.9	6.9
0205_03	1.1 ppm	Week : 13	175	0.6	3.4	7.4
0206_03	1.1 ppm	Week : 13	87	0.6	3.3	7.5
0207_03	1.1 ppm	Week : 13	114	0.7	3.3	6.9
0208_03	1.1 ppm	Week : 13	188	0.6	2.5	6.7
0209_03	1.1 ppm	Week : 13	89	0.6	3.3	7.5
0210_03	1.1 ppm	Week : 13	155	0.7	3.2	7.3
0211_03	1.1 ppm	Day : 4	437	0.5	2.3	5.6
0211_03	1.1 ppm	Day : 23	198	0.5	2.7	6.2
0212_03	1.1 ppm	Day : 4	322	0.5	2.4	5.8
0212_03	1.1 ppm	Day : 23	196	0.4	2.4	6.1
0213_03	1.1 ppm	Day : 4	474	0.6	2.2	5.7
0213_03	1.1 ppm	Day : 23	254	0.5	2.3	6

## MALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0214_03	1.1 ppm	Day : 4	395	0.6	2.5	6
0214_03	1.1 ppm	Day : 23	245	0.5	2.4	6.3
0215_03	1.1 ppm	Day : 4	442	0.6	2.3	5.7
0215_03	1.1 ppm	Day : 23	182	0.6	2.6	6.4
0216_03	1.1 ppm	Day : 4	1188*	0.6	2.4	5.9
0216_03	1.1 ppm	Day : 23	337	0.7	2.4	6.2
0217_03	1.1 ppm	Day : 4	297	0.6	2.5	5.8
0217_03	1.1 ppm	Day : 23	187	0.6	2.4	6.2
0218_03	1.1 ppm	Day : 4	456	0.5	2.1	5.5
0218_03	1.1 ppm	Day : 23	133	0.4	2.2	5.7
0219_03	1.1 ppm	Day : 4	325	0.6	2.1	5.6
0219_03	1.1 ppm	Day : 23	238	0.6	2.4	6.1
0220_03	1.1 ppm	Day : 4	307	0.5	2.1	5.4
0220_03	1.1 ppm	Day : 23	302	0.6	2.3	6
0401_03	2.3 ppm	Week : 13	63	0.6	2.7	7.1
0402_03	2.3 ppm	Week : 13	131	0.7	3.3	7.4
0403_03	2.3 ppm	Week : 13	177	0.6	3.1	7.1
0404_03	2.3 ppm	Week : 13	79	0.7	2.8	7.1
0405_03	2.3 ppm	Week : 13	59	0.6	2.7	6.8
0406_03	2.3 ppm	Week : 13	102	0.7	3.2	7.1
0407_03	2.3 ppm	Week : 13	63	0.6	3	7.2
0408_03	2.3 ppm	Week : 13	181	0.6	3.1	6.9

## MALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0409_03	2.3 ppm	Week : 13	78	0.7	3.1	7.3
0410_03	2.3 ppm	Week : 13	57	0.6	2.9	7.1
0411_03	2.3 ppm	Day : 4	337	0.5	2.3	5.9
0411_03	2.3 ppm	Day : 23	194	0.6	2.5	6.2
0412_03	2.3 ppm	Day : 4	298	0.5	2.2	5.7
0412_03	2.3 ppm	Day : 23	297	0.6	2.5	6.3
0413_03	2.3 ppm	Day : 4	292	0.5	2.6	6
0413_03	2.3 ppm	Day : 23	696	0.5	2.8	6.5
0414_03	2.3 ppm	Day : 4	322	0.6	2.3	5.8
0414_03	2.3 ppm	Day : 23	362	0.6	2.4	6.2
0415_03	2.3 ppm	Day : 4	374	0.6	2.3	5.8
0415_03	2.3 ppm	Day : 23	239	0.6	2.5	6.4
0416_03	2.3 ppm	Day : 4	349	0.6	2.3	5.6
0416_03	2.3 ppm	Day : 23	257	0.5	2.7	6.4
0417_03	2.3 ppm	Day : 4	243	0.6	2.2	5.8
0417_03	2.3 ppm	Day : 23	207	0.6	2.5	6.4
0418_03	2.3 ppm	Day : 4	435	0.5	2.2	5.4
0419_03	2.3 ppm	Day : 4	265	0.6	2.6	5.9
0419_03	2.3 ppm	Day : 23	412	0.5	2.4	6.3
0420_03	2.3 ppm	Day : 4	306	0.5	2.4	5.6
0420_03	2.3 ppm	Day : 23	296	0.6	3	6.7
0601_03	4.5 ppm	Week : 13	316	0.7	2.7	7

## MALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0602_03	4.5 ppm	Week : 13	116	0.7	3.3	7.3
0603_03	4.5 ppm	Week : 13	371	0.6	3.3	7.1
0604_03	4.5 ppm	Week : 13	47	0.6	3	7.1
0605_03	4.5 ppm	Week : 13	135	0.7	3.3	7.7
0606_03	4.5 ppm	Week : 13	312	0.7	3.1	7.3
0607_03	4.5 ppm	Week : 13	46	0.6	2.9	7.1
0608_03	4.5 ppm	Week : 13	140	0.7	3.1	7.1
0609_03	4.5 ppm	Week : 13	62	0.6	3.3	7.3
0610_03	4.5 ppm	Week : 13	134	0.6	2.9	7.1
0611_03	4.5 ppm	Day : 4	406	0.6	2.3	5.6
0611_03	4.5 ppm	Day : 23	314	0.5	2.6	6.3
0612_03	4.5 ppm	Day : 4	454	0.5	2.2	5.7
0612_03	4.5 ppm	Day : 23	398	0.6	2.3	6
0613_03	4.5 ppm	Day : 4	445	0.5	2.2	5.6
0613_03	4.5 ppm	Day : 23	322	0.6	2.5	6.3
0614_03	4.5 ppm	Day : 4	302	0.5	2.4	5.7
0614_03	4.5 ppm	Day : 23	212	0.5	2.8	6.3
0615_03	4.5 ppm	Day : 4	390	0.6	2.4	5.7
0615_03	4.5 ppm	Day : 23	475	0.5	2.8	6.6
0616_03	4.5 ppm	Day : 4	529	0.5	2.4	5.9
0616_03	4.5 ppm	Day : 23	185	0.5	2.8	6.6
0617_03	4.5 ppm	Day : 4	426	0.6	2.5	5.9

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0617_03	4.5 ppm	Day : 23	445	0.5	2.3	6.2
0618_03	4.5 ppm	Day : 4	398	0.6	2.6	5.9
0618_03	4.5 ppm	Day : 23	117	0.5	2.7	6.5
0619_03	4.5 ppm	Day : 4	438	0.6	2.3	5.6
0619_03	4.5 ppm	Day : 23	433	0.6	2.5	6.3
0620_03	4.5 ppm	Day : 4	406	0.6	2.3	5.8
0620_03	4.5 ppm	Day : 23	278	0.5	2.3	6.4
0801_03	9 ppm	Week : 13	153	0.7	2.9	7.1
0802_03	9 ppm	Week : 13	85	0.6	3.2	7.2
0803_03	9 ppm	Week : 13	77	0.6	3.3	7.5
0804_03	9 ppm	Week : 13	78	0.7	2.7	7.1
0805_03	9 ppm	Week : 13	90	0.7	2.6	7
0806_03	9 ppm	Week : 13	80	0.6	3	7.4
0807_03	9 ppm	Week : 13	110	0.6	3	7.1
0808_03	9 ppm	Week : 13	252	0.7	3.2	7.5
0809_03	9 ppm	Week : 13	60	0.6	3.2	7.6
0810_03	9 ppm	Week : 13	78	0.6	3.1	7.6
0811_03	9 ppm	Day : 4	392	0.5	2.3	5.7
0811_03	9 ppm	Day : 23	366	0.5	3.1	7
0812_03	9 ppm	Day : 4	383	0.6	2.2	5.5
0812_03	9 ppm	Day : 23	442	0.5	2.4	6.2
0813_03	9 ppm	Day : 4	697	0.5	2.6	6



## MALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0813_03	9 ppm	Day : 23	1390*	0.6	2.8	6.6
0814_03	9 ppm	Day : 4	470	0.6	2.2	5.8
0814_03	9 ppm	Day : 23	414	0.7	2.8	6.7
0815_03	9 ppm	Day : 4	352	0.6	2.5	5.8
0815_03	9 ppm	Day : 23	145	0.5	2.6	6.5
0816_03	9 ppm	Day : 4	294	0.7	2.2	5.6
0816_03	9 ppm	Day : 23	297	0.7	2.6	7
0817_03	9 ppm	Day : 4	280	0.6	2.1	5.5
0817_03	9 ppm	Day : 23	170	0.5	2.7	6.4
0818_03	9 ppm	Day : 4	334	0.6	2.2	5.6
0818_03	9 ppm	Day : 23	317	0.7	2.4	6.4
0819_03	9 ppm	Day : 4	311	0.7	2.3	6
0819_03	9 ppm	Day : 23	313	0.6	3.2	6.9
0820_03	9 ppm	Day : 4	291	0.7	2.1	5.8
0820_03	9 ppm	Day : 23	266	0.6	2.7	6.7
1001_03	18 ppm	Week : 13	85	0.6	3.1	7.3
1002_03	18 ppm	Week : 13	438*	0.6	2.9	7.2
1003_03	18 ppm	Week : 13	131	0.7	3.1	7.3
1004_03	18 ppm	Week : 13	207	0.7	3.6	7.8
1005_03	18 ppm	Week : 13	74	0.7	3.5	7.9
1006_03	18 ppm	Week : 13	109	0.6	3.1	7.4
1007_03	18 ppm	Week : 13	121	0.6	3.1	7.3

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
1008_03	18 ppm	Week : 13	157	0.6	3.1	7.6
1009_03	18 ppm	Week : 13	114	0.7	3.5	8
1010_03	18 ppm	Week : 13	58	0.6	3.2	7.6
1011_03	18 ppm	Day : 4	411	0.7	1.9	5
1011_03	18 ppm	Day : 23	417	0.7	2.4	6.4
1012_03	18 ppm	Day : 4	363	0.7	1.8	4.9
1012_03	18 ppm	Day : 23	344	0.6	2.4	6.5
1013_03	18 ppm	Day : 4	320	0.6	2.1	5.3
1014_03	18 ppm	Day : 4	338	0.7	2	5.3
1014_03	18 ppm	Day : 23	243	0.5	3	6.9
1015_03	18 ppm	Day : 4	407	0.6	2.1	5.3
1016_03	18 ppm	Day : 4	341	0.7	1.7	5.2
1016_03	18 ppm	Day : 23	150	0.5	2.6	6.4
1017_03	18 ppm	Day : 4	300	0.7	1.8	4.9
1017_03	18 ppm	Day : 23	375	0.5	3	6.8
1018_03	18 ppm	Day : 4	225	0.7	2	5.4
1018_03	18 ppm	Day : 23	320	0.6	2.9	6.9
1019_03	18 ppm	Day : 4	351	0.7	1.8	5
1020_03	18 ppm	Day : 4	217	0.7	2.4	6

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

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_03	0 ppm	Week : 13	13
0002_03	0 ppm	Week : 13	17
0003_03	0 ppm	Week : 13	17
0004_03	0 ppm	Week : 13	21
0005_03	0 ppm	Week : 13	15
0006_03	0 ppm	Week : 13	17
0007_03	0 ppm	Week : 13	24
0008_03	0 ppm	Week : 13	22
0009_03	0 ppm	Week : 13	16
0010_03	0 ppm	Week : 13	38
0011_03	0 ppm	Day : 4	10
0011_03	0 ppm	Day : 23	9
0012_03	0 ppm	Day : 4	9
0012_03	0 ppm	Day : 23	9
0013_03	0 ppm	Day : 4	11
0014_03	0 ppm	Day : 4	20
0015_03	0 ppm	Day : 4	11
0015_03	0 ppm	Day : 23	9
0016_03	0 ppm	Day : 4	9
0016_03	0 ppm	Day : 23	9
0017_03	0 ppm	Day : 4	8
0017_03	0 ppm	Day : 23	7

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

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
0018_03	0 ppm	Day : 4	9
0018_03	0 ppm	Day : 23	11
0019_03	0 ppm	Day : 4	8
0019_03	0 ppm	Day : 23	10
0020_03	0 ppm	Day : 4	8
0020_03	0 ppm	Day : 23	7
0201_03	1.1 ppm	Week : 13	19
0202_03	1.1 ppm	Week : 13	16
0203_03	1.1 ppm	Week : 13	29
0204_03	1.1 ppm	Week : 13	20
0205_03	1.1 ppm	Week : 13	19
0206_03	1.1 ppm	Week : 13	29
0207_03	1.1 ppm	Week : 13	19
0208_03	1.1 ppm	Week : 13	16
0209_03	1.1 ppm	Week : 13	19
0210_03	1.1 ppm	Week : 13	15
0211_03	1.1 ppm	Day : 4	12
0211_03	1.1 ppm	Day : 23	9
0212_03	1.1 ppm	Day : 4	13
0212_03	1.1 ppm	Day : 23	10
0213_03	1.1 ppm	Day : 4	13
0213_03	1.1 ppm	Day : 23	6

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

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
0214_03	1.1 ppm	Day : 4	11
0214_03	1.1 ppm	Day : 23	10
0215_03	1.1 ppm	Day : 4	15
0215_03	1.1 ppm	Day : 23	9
0216_03	1.1 ppm	Day : 4	14
0216_03	1.1 ppm	Day : 23	10
0217_03	1.1 ppm	Day : 4	12
0217_03	1.1 ppm	Day : 23	9
0218_03	1.1 ppm	Day : 4	13
0218_03	1.1 ppm	Day : 23	7
0219_03	1.1 ppm	Day : 4	10
0219_03	1.1 ppm	Day : 23	9
0220_03	1.1 ppm	Day : 4	11
0220_03	1.1 ppm	Day : 23	9
0401_03	2.3 ppm	Week : 13	14
0402_03	2.3 ppm	Week : 13	21
0403_03	2.3 ppm	Week : 13	37
0404_03	2.3 ppm	Week : 13	19
0405_03	2.3 ppm	Week : 13	15
0406_03	2.3 ppm	Week : 13	17
0407_03	2.3 ppm	Week : 13	16
0408_03	2.3 ppm	Week : 13	33

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

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
0409_03	2.3 ppm	Week : 13	20
0410_03	2.3 ppm	Week : 13	15
0411_03	2.3 ppm	Day : 4	12
0411_03	2.3 ppm	Day : 23	9
0412_03	2.3 ppm	Day : 4	12
0412_03	2.3 ppm	Day : 23	12
0413_03	2.3 ppm	Day : 4	12
0413_03	2.3 ppm	Day : 23	9
0414_03	2.3 ppm	Day : 4	15
0414_03	2.3 ppm	Day : 23	9
0415_03	2.3 ppm	Day : 4	24
0415_03	2.3 ppm	Day : 23	9
0416_03	2.3 ppm	Day : 4	17
0416_03	2.3 ppm	Day : 23	10
0417_03	2.3 ppm	Day : 4	10
0417_03	2.3 ppm	Day : 23	10
0418_03	2.3 ppm	Day : 4	17
0419_03	2.3 ppm	Day : 4	11
0419_03	2.3 ppm	Day : 23	9
0420_03	2.3 ppm	Day : 4	13
0420_03	2.3 ppm	Day : 23	10
0601_03	4.5 ppm	Week : 13	16

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

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
0602_03	4.5 ppm	Week : 13	20
0603_03	4.5 ppm	Week : 13	15
0604_03	4.5 ppm	Week : 13	24
0605_03	4.5 ppm	Week : 13	22
0606_03	4.5 ppm	Week : 13	42
0607_03	4.5 ppm	Week : 13	16
0608_03	4.5 ppm	Week : 13	20
0609_03	4.5 ppm	Week : 13	20
0610_03	4.5 ppm	Week : 13	15
0611_03	4.5 ppm	Day : 4	13
0611_03	4.5 ppm	Day : 23	9
0612_03	4.5 ppm	Day : 4	13
0612_03	4.5 ppm	Day : 23	10
0613_03	4.5 ppm	Day : 4	11
0613_03	4.5 ppm	Day : 23	11
0614_03	4.5 ppm	Day : 4	14
0614_03	4.5 ppm	Day : 23	10
0615_03	4.5 ppm	Day : 4	19
0615_03	4.5 ppm	Day : 23	11
0616_03	4.5 ppm	Day : 4	18
0616_03	4.5 ppm	Day : 23	10
0617_03	4.5 ppm	Day : 4	17

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

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
0617_03	4.5 ppm	Day : 23	12
0618_03	4.5 ppm	Day : 4	17
0618_03	4.5 ppm	Day : 23	7
0619_03	4.5 ppm	Day : 4	12
0619_03	4.5 ppm	Day : 23	10
0620_03	4.5 ppm	Day : 4	12
0620_03	4.5 ppm	Day : 23	8
0801_03	9 ppm	Week : 13	23
0802_03	9 ppm	Week : 13	21
0803_03	9 ppm	Week : 13	23
0804_03	9 ppm	Week : 13	20
0805_03	9 ppm	Week : 13	21
0806_03	9 ppm	Week : 13	23
0807_03	9 ppm	Week : 13	22
0808_03	9 ppm	Week : 13	24
0809_03	9 ppm	Week : 13	17
0810_03	9 ppm	Week : 13	22
0811_03	9 ppm	Day : 4	14
0811_03	9 ppm	Day : 23	12
0812_03	9 ppm	Day : 4	15
0812_03	9 ppm	Day : 23	12
0813_03	9 ppm	Day : 4	13



Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

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
0813_03	9 ppm	Day : 23	14
0814_03	9 ppm	Day : 4	23
0814_03	9 ppm	Day : 23	16
0815_03	9 ppm	Day : 4	17
0815_03	9 ppm	Day : 23	13
0816_03	9 ppm	Day : 4	16
0816_03	9 ppm	Day : 23	15
0817_03	9 ppm	Day : 4	17
0817_03	9 ppm	Day : 23	12
0818_03	9 ppm	Day : 4	15
0818_03	9 ppm	Day : 23	15
0819_03	9 ppm	Day : 4	14
0819_03	9 ppm	Day : 23	13
0820_03	9 ppm	Day : 4	14
0820_03	9 ppm	Day : 23	17
1001_03	18 ppm	Week : 13	30
1002_03	18 ppm	Week : 13	24
1003_03	18 ppm	Week : 13	25
1004_03	18 ppm	Week : 13	23
1005_03	18 ppm	Week : 13	23
1006_03	18 ppm	Week : 13	26
1007_03	18 ppm	Week : 13	31

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:46

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
1008_03	18 ppm	Week : 13	40
1009_03	18 ppm	Week : 13	27
1010_03	18 ppm	Week : 13	30
1011_03	18 ppm	Day : 4	28
1011_03	18 ppm	Day : 23	20
1012_03	18 ppm	Day : 4	28
1012_03	18 ppm	Day : 23	15
1013_03	18 ppm	Day : 4	29
1014_03	18 ppm	Day : 4	28
1014_03	18 ppm	Day : 23	13
1015_03	18 ppm	Day : 4	30
1016_03	18 ppm	Day : 4	41
1016_03	18 ppm	Day : 23	15
1017_03	18 ppm	Day : 4	32
1017_03	18 ppm	Day : 23	20
1018_03	18 ppm	Day : 4	34
1018_03	18 ppm	Day : 23	15
1019_03	18 ppm	Day : 4	19
1020_03	18 ppm	Day : 4	67

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0101_03	0 ppm	Week : 13	4.6	1.44	356	64
0102_03	0 ppm	Week : 13	4.3	1.48	305	51
0103_03	0 ppm	Week : 13	4.4	1.47	295	58
0104_03	0 ppm	Week : 13	4.5	1.61	291	51
0105_03	0 ppm	Week : 13	4.5	1.61	319	46
0106_03	0 ppm	Week : 13	4.5	1.41	367	68
0107_03	0 ppm	Week : 13	4.4	1.69	295	47
0108_03	0 ppm	Week : 13	4.6	1.7	332	79
0109_03	0 ppm	Week : 13	4.5	1.5	255	66
0110_03	0 ppm	Week : 13	4.5	1.5	273	46
0111_03	0 ppm	Day : 4	3.8	2	823	42
0111_03	0 ppm	Day : 23	3.7	1.68	521	34
0112_03	0 ppm	Day : 4	3.6	1.5	825	44
0112_03	0 ppm	Day : 23	3.8	1.58	474	35
0113_03	0 ppm	Day : 4	3.3	1.27	690	43
0113_03	0 ppm	Day : 23	3.9	1.86	396	33
0114_03	0 ppm	Day : 4	3.7	1.68	712	47
0114_03	0 ppm	Day : 23	3.5	1.3	430	28
0115_03	0 ppm	Day : 4	3.7	1.68	706	47
0115_03	0 ppm	Day : 23	3.7	1.37	416	35
0116_03	0 ppm	Day : 4	3.5	1.84	817	44
0116_03	0 ppm	Day : 23	3.7	1.48	503	33

## 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 : 4	3.6	2.4	822	36
0117_03	0 ppm	Day : 23	3.7	1.61	437	33
0118_03	0 ppm	Day : 4	3.5	2.19	681	38
0118_03	0 ppm	Day : 23	3.7	1.48	520	37
0119_03	0 ppm	Day : 4	3.5	2.06	648	34
0119_03	0 ppm	Day : 23	3.8	1.58	437	31
0120_03	0 ppm	Day : 4	3.7	2.06	634	35
0301_03	1.1 ppm	Week : 13	4.6	1.7	298	58
0302_03	1.1 ppm	Week : 13	4.6	1.77	297	54
0303_03	1.1 ppm	Week : 13	4.3	1.43	222	59
0304_03	1.1 ppm	Week : 13	5.1	1.82	362	49
0305_03	1.1 ppm	Week : 13	4.8	1.71	328	57
0306_03	1.1 ppm	Week : 13	4.4	1.63	352	37
0307_03	1.1 ppm	Week : 13	4.2	1.4	370	49
0308_03	1.1 ppm	Week : 13	4.4	1.63	347	43
0309_03	1.1 ppm	Week : 13	4.4	1.47	243	51
0310_03	1.1 ppm	Week : 13	4.1	1.52	281	41
0311_03	1.1 ppm	Day : 4	3.6	1.64	809	45
0311_03	1.1 ppm	Day : 23	3.8	1.52	458	35
0312_03	1.1 ppm	Day : 4	3.6	1.57	718	39
0312_03	1.1 ppm	Day : 23	3.7	1.54	451	35
0313_03	1.1 ppm	Day : 4	3.6	1.5	688	36

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0313_03	1.1 ppm	Day : 23	3.7	1.48	367	34
0314_03	1.1 ppm	Day : 4	3.7	1.48	697	36
0314_03	1.1 ppm	Day : 23	4.1	1.71	372	30
0315_03	1.1 ppm	Day : 4	3.9	1.77	715	42
0315_03	1.1 ppm	Day : 23	3.7	1.48	544	34
0316_03	1.1 ppm	Day : 4	3.7	1.85	737	37
0316_03	1.1 ppm	Day : 23	4	1.82	378	27
0317_03	1.1 ppm	Day : 4	3.6	1.71	741	41
0317_03	1.1 ppm	Day : 23	3.9	1.44	428	35
0318_03	1.1 ppm	Day : 4	3.7	1.95	813	38
0318_03	1.1 ppm	Day : 23	3.7	1.37	447	35
0319_03	1.1 ppm	Day : 4	3.6	1.57	743	47
0319_03	1.1 ppm	Day : 23	3.7	1.61	496	31
0320_03	1.1 ppm	Day : 4	3.7	1.76	651	35
0320_03	1.1 ppm	Day : 23	3.9	1.63	409	36
0501_03	2.3 ppm	Week : 13	4.6	1.44	270	79
0502_03	2.3 ppm	Week : 13	4.5	1.5	319	60
0503_03	2.3 ppm	Week : 13	4.3	1.48	253	42
0504_03	2.3 ppm	Week : 13	4.4	1.69	306	64
0505_03	2.3 ppm	Week : 13	4.3	1.3	244	48
0506_03	2.3 ppm	Week : 13	4.6	1.7	326	62
0507_03	2.3 ppm	Week : 13	4.7	1.88	290	54

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:47

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
0508_03	2.3 ppm	Week : 13	4.5	1.5	313	57
0509_03	2.3 ppm	Week : 13	4.8	2	359	55
0510_03	2.3 ppm	Week : 13	4.4	1.57	264	63
0511_03	2.3 ppm	Day : 4	3.8	1.58	720	39
0511_03	2.3 ppm	Day : 23	4	1.82	451	37
0512_03	2.3 ppm	Day : 4	3.9	1.95	775	41
0512_03	2.3 ppm	Day : 23	3.8	1.52	473	41
0513_03	2.3 ppm	Day : 4	3.5	1.4	678	38
0513_03	2.3 ppm	Day : 23	3.7	1.61	423	37
0514_03	2.3 ppm	Day : 4	3.7	1.68	732	40
0514_03	2.3 ppm	Day : 23	3.6	1.38	427	40
0515_03	2.3 ppm	Day : 4	3.8	1.65	748	36
0515_03	2.3 ppm	Day : 23	4	1.74	398	32
0516_03	2.3 ppm	Day : 4	3.8	1.9	806	45
0516_03	2.3 ppm	Day : 23	3.5	1.4	434	32
0517_03	2.3 ppm	Day : 4	3.7	1.76	779	33
0517_03	2.3 ppm	Day : 23	3.7	1.54	547	35
0518_03	2.3 ppm	Day : 4	3.7	1.85	647	35
0518_03	2.3 ppm	Day : 23	4	1.67	446	32
0519_03	2.3 ppm	Day : 4	3.9	1.95	704	39
0519_03	2.3 ppm	Day : 23	3.6	1.57	414	35
0520_03	2.3 ppm	Day : 4	3.8	1.81	661	38

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:47

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	2.3 ppm	Day : 23	3.8	1.46	426	38
0701_03	4.5 ppm	Week : 13	4.5	1.55	165	49
0702_03	4.5 ppm	Week : 13	4.7	1.68	270	63
0703_03	4.5 ppm	Week : 13	4.7	1.68	285	47
0704_03	4.5 ppm	Week : 13	4	1.18	304	63
0705_03	4.5 ppm	Week : 13	4.9	1.63	272	60
0706_03	4.5 ppm	Week : 13	4.7	1.74	304	45
0707_03	4.5 ppm	Week : 13	4.6	1.59	268	45
0708_03	4.5 ppm	Week : 13	4.7	1.38	243	61
0709_03	4.5 ppm	Week : 13	4.5	1.67	304	53
0710_03	4.5 ppm	Week : 13	4.4	1.52	320	45
0711_03	4.5 ppm	Day : 4	3.8	1.73	628	37
0711_03	4.5 ppm	Day : 23	3.9	1.77	385	36
0712_03	4.5 ppm	Day : 4	3.8	1.73	736	34
0712_03	4.5 ppm	Day : 23	3.8	1.58	428	32
0713_03	4.5 ppm	Day : 4	3.9	1.7	731	34
0713_03	4.5 ppm	Day : 23	4	1.74	338	29
0714_03	4.5 ppm	Day : 4	3.7	1.68	826	38
0714_03	4.5 ppm	Day : 23	3.9	1.56	366	31
0715_03	4.5 ppm	Day : 4	4	2	730	39
0715_03	4.5 ppm	Day : 23	3.6	1.38	567	38
0716_03	4.5 ppm	Day : 4	4	1.82	652	35

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:47

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	4.5 ppm	Day : 23	3.8	1.52	433	71
0717_03	4.5 ppm	Day : 4	3.5	1.59	541	31
0717_03	4.5 ppm	Day : 23	3.6	1.64	442	35
0718_03	4.5 ppm	Day : 4	3.8	2	756	35
0718_03	4.5 ppm	Day : 23	3.8	1.52	401	34
0719_03	4.5 ppm	Day : 4	3.7	1.85	691	34
0719_03	4.5 ppm	Day : 23	4.1	1.71	399	26
0720_03	4.5 ppm	Day : 4	3.8	1.46	704	32
0720_03	4.5 ppm	Day : 23	3.9	1.56	387	27
0901_03	9 ppm	Week : 13	5	1.61	236	47
0902_03	9 ppm	Week : 13	4.8	1.66	255	61
0903_03	9 ppm	Week : 13	4.8	1.78	252	40
0904_03	9 ppm	Week : 13	4.9	1.58	248	52
0905_03	9 ppm	Week : 13	4.9	1.48	283	47
0906_03	9 ppm	Week : 13	4.9	1.69	353	44
0907_03	9 ppm	Week : 13	4.8	1.92	210	42
0908_03	9 ppm	Week : 13	4.6	1.84	310	41
0909_03	9 ppm	Week : 13	4.8	1.66	269	40
0910_03	9 ppm	Week : 13	5	1.92	364	51
0911_03	9 ppm	Day : 4	4.1	2.16	726	35
0911_03	9 ppm	Day : 23	4.1	1.78	405	46
0912_03	9 ppm	Day : 4	3.9	1.95	706	45



## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
0912_03	9 ppm	Day : 23	3.7	1.42	413	30
0913_03	9 ppm	Day : 4	3.9	1.77	649	35
0913_03	9 ppm	Day : 23	4.1	1.52	325	33
0914_03	9 ppm	Day : 4	3.9	1.86	731	38
0914_03	9 ppm	Day : 23	4.1	1.71	418	36
0915_03	9 ppm	Day : 4	3.6	1.5	852	46
0915_03	9 ppm	Day : 23	4	1.82	362	31
0916_03	9 ppm	Day : 4	3.5	1.84	646	37
0916_03	9 ppm	Day : 23	4.1	1.46	417	35
0917_03	9 ppm	Day : 4	3.8	1.9	584	37
0917_03	9 ppm	Day : 23	3.8	1.46	354	34
0918_03	9 ppm	Day : 4	3.9	2.05	706	39
0918_03	9 ppm	Day : 23	4	1.6	396	34
0919_03	9 ppm	Day : 4	4.1	2.28	656	35
0919_03	9 ppm	Day : 23	4	1.6	354	35
0920_03	9 ppm	Day : 4	4.1	2.28	498	35
0920_03	9 ppm	Day : 23	4.1	1.71	350	31
1101_03	18 ppm	Week : 13	4.9	1.75	236	50
1102_03	18 ppm	Week : 13	5.1	1.59	183	48
1103_03	18 ppm	Week : 13	4.6	1.44	289	34
1104_03	18 ppm	Week : 13	5	1.85	230	46
1105_03	18 ppm	Week : 13	4.9	1.63	209	35

## FEMALE

Animal No.	Dose	Time In Study	Albumin g per dL	Albumin Globulin Ratio	ALP IU per L	ALT IU per L
1106_03	18 ppm	Week : 13	4.8	1.55	264	45
1107_03	18 ppm	Week : 13	4.7	1.74	337	46
1108_03	18 ppm	Week : 13	4.6	1.59	247	32
1109_03	18 ppm	Week : 13	5.2	2.17	224	42
1110_03	18 ppm	Week : 13	4.6	1.44	205	34
1111_03	18 ppm	Day : 4	3.3	1.74	901	158
1112_03	18 ppm	Day : 4	3.7	1.68	588	38
1112_03	18 ppm	Day : 23	4	1.48	293	39
1113_03	18 ppm	Day : 4	3.5	2.5	753	256
1114_03	18 ppm	Day : 4	3.3	1.74	1521	113
1114_03	18 ppm	Day : 23	3.9	1.77	814*	48
1115_03	18 ppm	Day : 4	3.4	2	815	137
1115_03	18 ppm	Day : 23	4	1.67	347	41
1116_03	18 ppm	Day : 4	3.1	1.82	850	202
1116_03	18 ppm	Day : 23	4	1.74	404	36
1117_03	18 ppm	Day : 4	3.6	1.89	733	115
1117_03	18 ppm	Day : 23	3.9	1.5	387	58
1118_03	18 ppm	Day : 4	3.5	2.06	667	108
1118_03	18 ppm	Day : 23	3.9	1.56	332	50
1119_03	18 ppm	Day : 4	3.6	2.25	834	169
1119_03	18 ppm	Day : 23	3.9	1.56	319	40
1120_03	18 ppm	Day : 4	3.7	2.31	719	76

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

**P42: Clinical Chemistry Data**

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:47

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
1120_03	18 ppm	Day : 23	4.1	1.52	312	45

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0101_03	0 ppm	Week : 13	27.3	0.3	0.4	27
0102_03	0 ppm	Week : 13	17.5	0.1	0.2	22
0103_03	0 ppm	Week : 13	23.4	0.1	0.2	19
0104_03	0 ppm	Week : 13	23.7	0.1	0.3	23
0105_03	0 ppm	Week : 13	14.8	0.1	0.2	22
0106_03	0 ppm	Week : 13	19.7	0.1	0.3	22
0107_03	0 ppm	Week : 13	20.3	0.1	0.2	19
0108_03	0 ppm	Week : 13	42.9	0.1	0.3	21
0109_03	0 ppm	Week : 13	32.5	0	0.2	21
0110_03	0 ppm	Week : 13	18.9	0.1	0.3	17
0111_03	0 ppm	Day : 4	21.9	0.1	0.2	17
0111_03	0 ppm	Day : 23	17.3	0.1	0.2	14
0112_03	0 ppm	Day : 4	22	0.1	0.3	20
0112_03	0 ppm	Day : 23	16.7	0.1	0.2	16
0113_03	0 ppm	Day : 4	18.7	0.1	0.2	17
0113_03	0 ppm	Day : 23	11.7	0	0.2	17
0114_03	0 ppm	Day : 4	21.1	0.1	0.3	16
0114_03	0 ppm	Day : 23	18.1	0	0.2	15
0115_03	0 ppm	Day : 4	24.6	0.1	0.2	17
0115_03	0 ppm	Day : 23	21.4	0	0.2	17
0116_03	0 ppm	Day : 4	20.1	0.1	0.4	18
0116_03	0 ppm	Day : 23	11.3	0.1	0.2	16

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0117_03	0 ppm	Day : 4	18.7	0.1	0.3	20
0117_03	0 ppm	Day : 23	18.6	0	0.2	20
0118_03	0 ppm	Day : 4	16.2	0.1	0.3	16
0118_03	0 ppm	Day : 23	17.2	0.1	0.2	14
0119_03	0 ppm	Day : 4	12.6	0	0.3	18
0119_03	0 ppm	Day : 23	15.7	0.1	0.2	13
0120_03	0 ppm	Day : 4	16.6	0.1	0.4	21
0301_03	1.1 ppm	Week : 13	34.2	0.1	0.2	21
0302_03	1.1 ppm	Week : 13	24.3	0.1	0.2	19
0303_03	1.1 ppm	Week : 13	20.9	0.1	0.2	18
0304_03	1.1 ppm	Week : 13	18.1	0.1	0.3	22
0305_03	1.1 ppm	Week : 13	21	0.1	0.2	21
0306_03	1.1 ppm	Week : 13	13.7	0.1	0.2	20
0307_03	1.1 ppm	Week : 13	20.8	0.1	0.2	20
0308_03	1.1 ppm	Week : 13	12.9	0.1	0.2	23
0309_03	1.1 ppm	Week : 13	25.4	0	0.2	20
0310_03	1.1 ppm	Week : 13	15.2	0.1	0.2	18
0311_03	1.1 ppm	Day : 4	23.7	0.1	0.2	15
0311_03	1.1 ppm	Day : 23	12.7	0.1	0.2	16
0312_03	1.1 ppm	Day : 4	23.7	0.1	0.2	18
0312_03	1.1 ppm	Day : 23	14.8	0	0.2	16
0313_03	1.1 ppm	Day : 4	18.3	0	0.2	16

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0313_03	1.1 ppm	Day : 4	18.3	0	0.2	16
0313_03	1.1 ppm	Day : 23	11.8	0	0.2	17
0314_03	1.1 ppm	Day : 4	24.2	0.1	0.2	18
0314_03	1.1 ppm	Day : 23	12.1	0.1	0.2	14
0315_03	1.1 ppm	Day : 4	18.6	0.1	0.3	15
0315_03	1.1 ppm	Day : 23	16.8	0.1	0.2	14
0316_03	1.1 ppm	Day : 4	20	0.1	0.2	18
0316_03	1.1 ppm	Day : 23	13.5	0	0.2	14
0317_03	1.1 ppm	Day : 4	16.7	0.1	0.3	20
0317_03	1.1 ppm	Day : 23	11.7	0	0.2	18
0318_03	1.1 ppm	Day : 4	17.3	0.1	0.2	16
0318_03	1.1 ppm	Day : 23	13.1	0	0.2	16
0319_03	1.1 ppm	Day : 4	23.3	0.1	0.3	17
0319_03	1.1 ppm	Day : 23	11.5	0	0.2	15
0320_03	1.1 ppm	Day : 4	13.7	0.1	0.2	16
0320_03	1.1 ppm	Day : 23	10.7	0	0.2	20
0501_03	2.3 ppm	Week : 13	14.6	0.1	0.2	21
0502_03	2.3 ppm	Week : 13	20.6	0.1	0.3	18
0503_03	2.3 ppm	Week : 13	14.9	0	0.2	19
0504_03	2.3 ppm	Week : 13	27.3	0.2	0.3	24
0505_03	2.3 ppm	Week : 13	18.5	0.1	0.2	20
0506_03	2.3 ppm	Week : 13	21.4	0.1	0.2	19

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0507_03	2.3 ppm	Week : 13	23.7	0.1	0.2	20
0508_03	2.3 ppm	Week : 13	32.1	0.1	0.3	20
0509_03	2.3 ppm	Week : 13	16.8	0.1	0.2	19
0510_03	2.3 ppm	Week : 13	15.6	0.1	0.3	18
0511_03	2.3 ppm	Day : 4	20	0.1	0.3	17
0511_03	2.3 ppm	Day : 23	12.9	0.1	0.2	13
0512_03	2.3 ppm	Day : 4	20	0.1	0.2	19
0512_03	2.3 ppm	Day : 23	15.1	0	0.2	21
0513_03	2.3 ppm	Day : 4	17.8	0.1	0.2	16
0513_03	2.3 ppm	Day : 23	47.6	0	0.2	17
0514_03	2.3 ppm	Day : 4	20.8	0.1	0.2	19
0514_03	2.3 ppm	Day : 23	24	0	0.2	16
0515_03	2.3 ppm	Day : 4	18.4	0.1	0.3	15
0515_03	2.3 ppm	Day : 23	14.2	0	0.2	19
0516_03	2.3 ppm	Day : 4	15.7	0.2	0.3	14
0516_03	2.3 ppm	Day : 23	12.8	0	0.2	14
0517_03	2.3 ppm	Day : 4	16.4	0.1	0.3	15
0517_03	2.3 ppm	Day : 23	14.2	0.1	0.2	16
0518_03	2.3 ppm	Day : 4	18.2	0.1	0.2	18
0518_03	2.3 ppm	Day : 23	12.2	0	0.2	18
0519_03	2.3 ppm	Day : 4	14.4	0.1	0.2	15
0519_03	2.3 ppm	Day : 23	16.5	0	0.2	14

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0519_03	2.3 ppm	Day : 23	16.5	0	0.2	14
0520_03	2.3 ppm	Day : 4	15.7	0.1	0.3	19
0520_03	2.3 ppm	Day : 23	14.3	0	0.2	17
0701_03	4.5 ppm	Week : 13	24.7	0.1	0.2	15
0702_03	4.5 ppm	Week : 13	21.2	0.1	0.2	20
0703_03	4.5 ppm	Week : 13	15	0.1	0.2	22
0704_03	4.5 ppm	Week : 13	20.1	0.2	0.3	21
0705_03	4.5 ppm	Week : 13	21.4	0	0.2	22
0706_03	4.5 ppm	Week : 13	19.5	0.1	0.2	19
0707_03	4.5 ppm	Week : 13	16.7	0	0.2	20
0708_03	4.5 ppm	Week : 13	20.4	0.2	0.3	23
0709_03	4.5 ppm	Week : 13	16.6	0.1	0.3	20
0710_03	4.5 ppm	Week : 13	16.4	0.1	0.2	22
0711_03	4.5 ppm	Day : 4	17.1	0.1	0.3	16
0711_03	4.5 ppm	Day : 23	16.9	0	0.3	20
0712_03	4.5 ppm	Day : 4	19.9	0	0.3	15
0712_03	4.5 ppm	Day : 23	13.2	0	0.2	19
0713_03	4.5 ppm	Day : 4	19.8	0.1	0.3	15
0713_03	4.5 ppm	Day : 23	16.2	0	0.2	17
0714_03	4.5 ppm	Day : 4	21.4	0.1	0.3	15
0714_03	4.5 ppm	Day : 23	23.8	0	0.2	19
0715_03	4.5 ppm	Day : 4	18.5	0.1	0.3	19



## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0715_03	4.5 ppm	Day : 23	15.1	0	0.2	17
0716_03	4.5 ppm	Day : 4	28.9	0.1	0.3	18
0716_03	4.5 ppm	Day : 23	42.6	0	0.2	16
0717_03	4.5 ppm	Day : 4	17.5	0.1	0.2	17
0717_03	4.5 ppm	Day : 23	14.5	0	0.2	15
0718_03	4.5 ppm	Day : 4	19	0.1	0.2	16
0718_03	4.5 ppm	Day : 23	14.4	0.1	0.2	14
0719_03	4.5 ppm	Day : 4	21.7	0.1	0.2	18
0719_03	4.5 ppm	Day : 23	13.8	0.1	0.2	16
0720_03	4.5 ppm	Day : 4	20.3	0.1	0.3	19
0720_03	4.5 ppm	Day : 23	15.1	0	0.2	15
0901_03	9 ppm	Week : 13	15.7	0.1	0.3	19
0902_03	9 ppm	Week : 13	23.1	0.1	0.3	19
0903_03	9 ppm	Week : 13	32.3	0.1	0.2	20
0904_03	9 ppm	Week : 13	21.7	0.1	0.3	21
0905_03	9 ppm	Week : 13	19	0.1	0.3	23
0906_03	9 ppm	Week : 13	17.9	0.1	0.3	17
0907_03	9 ppm	Week : 13	13.6	0.1	0.2	17
0908_03	9 ppm	Week : 13	22.1	0.1	0.2	18
0909_03	9 ppm	Week : 13	18	0.2	0.4	22
0910_03	9 ppm	Week : 13	15.9	0.2	0.3	22
0911_03	9 ppm	Day : 4	18.9	0.1	0.3	18

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
0911_03	9 ppm	Day : 4	18.9	0.1	0.3	18
0911_03	9 ppm	Day : 23	15.7	0.1	0.2	16
0912_03	9 ppm	Day : 4	22.3	0.1	0.3	17
0912_03	9 ppm	Day : 23	14.9	0.1	0.2	17
0913_03	9 ppm	Day : 4	21.1	0.1	0.3	17
0913_03	9 ppm	Day : 23	15.7	0	0.2	18
0914_03	9 ppm	Day : 4	22.4	0.1	0.3	17
0914_03	9 ppm	Day : 23	18.6	0.1	0.2	18
0915_03	9 ppm	Day : 4	24.4	0.1	0.3	17
0915_03	9 ppm	Day : 23	17.7	0.1	0.2	16
0916_03	9 ppm	Day : 4	21.9	0.1	0.4	16
0916_03	9 ppm	Day : 23	17.8	0.1	0.3	16
0917_03	9 ppm	Day : 4	25.6	0.1	0.4	20
0917_03	9 ppm	Day : 23	17.5	0	0.2	18
0918_03	9 ppm	Day : 4	26.4	0.1	0.4	20
0918_03	9 ppm	Day : 23	13	0	0.2	19
0919_03	9 ppm	Day : 4	17.4	0	0.4	17
0919_03	9 ppm	Day : 23	17.4	0	0.2	15
0920_03	9 ppm	Day : 4	18.8	0.1	0.4	20
0920_03	9 ppm	Day : 23	15.1	0	0.3	18
1101_03	18 ppm	Week : 13	15.3	0.2	0.3	20
1102_03	18 ppm	Week : 13	25.4	0.1	0.3	17

## FEMALE

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
1103_03	18 ppm	Week : 13	17.3	0.1	0.2	18
1104_03	18 ppm	Week : 13	27.9	0.1	0.3	17
1105_03	18 ppm	Week : 13	15	0.1	0.3	23
1106_03	18 ppm	Week : 13	18.9	0.1	0.3	21
1107_03	18 ppm	Week : 13	23.6	0.1	0.2	21
1108_03	18 ppm	Week : 13	15.6	0.1	0.2	17
1109_03	18 ppm	Week : 13	17	0.1	0.3	21
1110_03	18 ppm	Week : 13	29	0.1	0.2	19
1111_03	18 ppm	Day : 4	40	0.2	0.6	11
1112_03	18 ppm	Day : 4	25.6	0.1	0.4	17
1112_03	18 ppm	Day : 23	19.8	0.1	0.3	17
1113_03	18 ppm	Day : 4	57.9	0.2	0.6	13
1114_03	18 ppm	Day : 4	33.9	0.1	0.4	10
1114_03	18 ppm	Day : 23	17	0.1	0.2	15
1115_03	18 ppm	Day : 4	41.4	0.1	0.5	12
1115_03	18 ppm	Day : 23	16.5	0.1	0.3	19
1116_03	18 ppm	Day : 4	37.5	0.2	0.6	16
1116_03	18 ppm	Day : 23	16.5	0	0.2	17
1117_03	18 ppm	Day : 4	28.8	0.1	0.4	18
1117_03	18 ppm	Day : 23	18.4	0.1	0.3	18
1118_03	18 ppm	Day : 4	25.1	0.2	0.5	16
1118_03	18 ppm	Day : 23	17	0.1	0.2	18

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:48

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Bile Acids Per G Tissue umol per g	Bilirubin Direct mg per dL	Bilirubin Total mg per dL	BUN mg per dL
1118_03	18 ppm	Day : 23	17	0.1	0.2	18
1119_03	18 ppm	Day : 4	36.4	0.2	0.6	18
1119_03	18 ppm	Day : 23	18.2	0.1	0.2	18
1120_03	18 ppm	Day : 4	20.5	0.1	0.4	17
1120_03	18 ppm	Day : 23	17	0	0.2	19

## FEMALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0101_03	0 ppm	Week : 13	119	0.7	3.2	7.8
0102_03	0 ppm	Week : 13	170	0.6	2.9	7.2
0103_03	0 ppm	Week : 13	130	0.6	3	7.4
0104_03	0 ppm	Week : 13	63	0.6	2.8	7.3
0105_03	0 ppm	Week : 13	69	0.6	2.8	7.3
0106_03	0 ppm	Week : 13	79	0.6	3.2	7.7
0107_03	0 ppm	Week : 13	87	0.7	2.6	7
0108_03	0 ppm	Week : 13	129	0.7	2.7	7.3
0109_03	0 ppm	Week : 13	111	0.5	3	7.5
0110_03	0 ppm	Week : 13	75	0.7	3	7.5
0111_03	0 ppm	Day : 4	343	0.5	1.9	5.7
0111_03	0 ppm	Day : 23	218	0.5	2.2	5.9
0112_03	0 ppm	Day : 4	330	0.6	2.4	6
0112_03	0 ppm	Day : 23	391	0.6	2.4	6.2
0113_03	0 ppm	Day : 4	210	0.5	2.6	5.9
0113_03	0 ppm	Day : 23	186	0.4	2.1	6
0114_03	0 ppm	Day : 4	422	0.6	2.2	5.9
0114_03	0 ppm	Day : 23	311	0.5	2.7	6.2
0115_03	0 ppm	Day : 4	432	0.6	2.2	5.9
0115_03	0 ppm	Day : 23	317	0.5	2.7	6.4
0116_03	0 ppm	Day : 4	409	0.6	1.9	5.4
0116_03	0 ppm	Day : 23	269	0.5	2.5	6.2

## FEMALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0117_03	0 ppm	Day : 4	187	0.6	1.5	5.1
0117_03	0 ppm	Day : 23	190	0.5	2.3	6
0118_03	0 ppm	Day : 4	205	0.6	1.6	5.1
0118_03	0 ppm	Day : 23	638	0.5	2.5	6.2
0119_03	0 ppm	Day : 4	144	0.6	1.7	5.2
0119_03	0 ppm	Day : 23	363	0.5	2.4	6.2
0120_03	0 ppm	Day : 4	1797*	0.6	1.8	5.5
0301_03	1.1 ppm	Week : 13	81	0.6	2.7	7.3
0302_03	1.1 ppm	Week : 13	102	0.6	2.6	7.2
0303_03	1.1 ppm	Week : 13	82	0.6	3	7.3
0304_03	1.1 ppm	Week : 13	75	0.7	2.8	7.9
0305_03	1.1 ppm	Week : 13	518*	0.7	2.8	7.6
0306_03	1.1 ppm	Week : 13	99	0.6	2.7	7.1
0307_03	1.1 ppm	Week : 13	75	0.6	3	7.2
0308_03	1.1 ppm	Week : 13	250	0.5	2.7	7.1
0309_03	1.1 ppm	Week : 13	118	0.6	3	7.4
0310_03	1.1 ppm	Week : 13	123	0.6	2.7	6.8
0311_03	1.1 ppm	Day : 4	390	0.5	2.2	5.8
0311_03	1.1 ppm	Day : 23	303	0.5	2.5	6.3
0312_03	1.1 ppm	Day : 4	260	0.6	2.3	5.9
0312_03	1.1 ppm	Day : 23	214	0.5	2.4	6.1
0313_03	1.1 ppm	Day : 4	222	0.5	2.4	6

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:48

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0313_03	1.1 ppm	Day : 23	527	0.5	2.5	6.2
0314_03	1.1 ppm	Day : 4	212	0.6	2.5	6.2
0314_03	1.1 ppm	Day : 23	118	0.5	2.4	6.5
0315_03	1.1 ppm	Day : 4	345	0.6	2.2	6.1
0315_03	1.1 ppm	Day : 23	331	0.5	2.5	6.2
0316_03	1.1 ppm	Day : 4	251	0.5	2	5.7
0316_03	1.1 ppm	Day : 23	107	0.5	2.2	6.2
0317_03	1.1 ppm	Day : 4	216	0.6	2.1	5.7
0317_03	1.1 ppm	Day : 23	213	0.6	2.7	6.6
0318_03	1.1 ppm	Day : 4	241	0.6	1.9	5.6
0318_03	1.1 ppm	Day : 23	176	0.5	2.7	6.4
0319_03	1.1 ppm	Day : 4	463	0.6	2.3	5.9
0319_03	1.1 ppm	Day : 23	260	0.5	2.3	6
0320_03	1.1 ppm	Day : 4	224	0.6	2.1	5.8
0320_03	1.1 ppm	Day : 23	456	0.4	2.4	6.3
0501_03	2.3 ppm	Week : 13	90	0.6	3.2	7.8
0502_03	2.3 ppm	Week : 13	89	0.7	3	7.5
0503_03	2.3 ppm	Week : 13	91	0.6	2.9	7.2
0504_03	2.3 ppm	Week : 13	195	0.7	2.6	7
0505_03	2.3 ppm	Week : 13	114	0.6	3.3	7.6
0506_03	2.3 ppm	Week : 13	82	0.6	2.7	7.3
0507_03	2.3 ppm	Week : 13	86	0.6	2.5	7.2

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:48

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0508_03	2.3 ppm	Week : 13	208	0.6	3	7.5
0509_03	2.3 ppm	Week : 13	74	0.6	2.4	7.2
0510_03	2.3 ppm	Week : 13	169	0.6	2.8	7.2
0511_03	2.3 ppm	Day : 4	241	0.6	2.4	6.2
0511_03	2.3 ppm	Day : 23	270	0.6	2.2	6.2
0512_03	2.3 ppm	Day : 4	263	0.5	2	5.9
0512_03	2.3 ppm	Day : 23	295	0.5	2.5	6.3
0513_03	2.3 ppm	Day : 4	248	0.6	2.5	6
0513_03	2.3 ppm	Day : 23	248	0.6	2.3	6
0514_03	2.3 ppm	Day : 4	223	0.6	2.2	5.9
0514_03	2.3 ppm	Day : 23	483	0.6	2.6	6.2
0515_03	2.3 ppm	Day : 4	315	0.5	2.3	6.1
0515_03	2.3 ppm	Day : 23	188	0.5	2.3	6.3
0516_03	2.3 ppm	Day : 4	232	0.6	2	5.8
0516_03	2.3 ppm	Day : 23	227	0.4	2.5	6
0517_03	2.3 ppm	Day : 4	327	0.6	2.1	5.8
0517_03	2.3 ppm	Day : 23	497	0.6	2.4	6.1
0518_03	2.3 ppm	Day : 4	397	0.6	2	5.7
0518_03	2.3 ppm	Day : 23	226	0.4	2.4	6.4
0519_03	2.3 ppm	Day : 4	370	0.6	2	5.9
0519_03	2.3 ppm	Day : 23	210	0.4	2.3	5.9
0520_03	2.3 ppm	Day : 4	516	0.6	2.1	5.9



Experiment Number: 05207-03

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Species/Strain: Rat/Fischer 344

Time Report Requested: 00:43:48

First Dose M/F: NA / NA

Lab: NA

## FEMALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0520_03	2.3 ppm	Day : 23	234	0.5	2.6	6.4
0701_03	4.5 ppm	Week : 13	85	0.7	2.9	7.4
0702_03	4.5 ppm	Week : 13	162	0.7	2.8	7.5
0703_03	4.5 ppm	Week : 13	103	0.6	2.8	7.5
0704_03	4.5 ppm	Week : 13	125	0.6	3.4	7.4
0705_03	4.5 ppm	Week : 13	88	0.6	3	7.9
0706_03	4.5 ppm	Week : 13	552*	0.5	2.7	7.4
0707_03	4.5 ppm	Week : 13	55	0.5	2.9	7.5
0708_03	4.5 ppm	Week : 13	146	0.6	3.4	8.1
0709_03	4.5 ppm	Week : 13	92	0.6	2.7	7.2
0710_03	4.5 ppm	Week : 13	168	0.6	2.9	7.3
0711_03	4.5 ppm	Day : 4	412	0.6	2.2	6
0711_03	4.5 ppm	Day : 23	344	0.5	2.2	6.1
0712_03	4.5 ppm	Day : 4	271	0.5	2.2	6
0712_03	4.5 ppm	Day : 23	157	0.4	2.4	6.2
0713_03	4.5 ppm	Day : 4	207	0.6	2.3	6.2
0713_03	4.5 ppm	Day : 23	149	0.4	2.3	6.3
0714_03	4.5 ppm	Day : 4	267	0.5	2.2	5.9
0714_03	4.5 ppm	Day : 23	212	0.5	2.5	6.4
0715_03	4.5 ppm	Day : 4	288	0.6	2	6
0715_03	4.5 ppm	Day : 23	131	0.5	2.6	6.2
0716_03	4.5 ppm	Day : 4	337	0.6	2.2	6.2

## FEMALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0716_03	4.5 ppm	Day : 23	371	0.6	2.5	6.3
0717_03	4.5 ppm	Day : 4	335	0.6	2.2	5.7
0717_03	4.5 ppm	Day : 23	203	0.4	2.2	5.8
0718_03	4.5 ppm	Day : 4	246	0.6	1.9	5.7
0718_03	4.5 ppm	Day : 23	343	0.6	2.5	6.3
0719_03	4.5 ppm	Day : 4	303	0.6	2	5.7
0719_03	4.5 ppm	Day : 23	173	0.5	2.4	6.5
0720_03	4.5 ppm	Day : 4	203	0.7	2.6	6.4
0720_03	4.5 ppm	Day : 23	343	0.5	2.5	6.4
0901_03	9 ppm	Week : 13	90	0.6	3.1	8.1
0902_03	9 ppm	Week : 13	88	0.6	2.9	7.7
0903_03	9 ppm	Week : 13	79	0.6	2.7	7.5
0904_03	9 ppm	Week : 13	93	0.5	3.1	8
0905_03	9 ppm	Week : 13	128	0.6	3.3	8.2
0906_03	9 ppm	Week : 13	79	0.5	2.9	7.8
0907_03	9 ppm	Week : 13	147	0.6	2.5	7.3
0908_03	9 ppm	Week : 13	101	0.6	2.5	7.1
0909_03	9 ppm	Week : 13	89	0.6	2.9	7.7
0910_03	9 ppm	Week : 13	88	0.6	2.6	7.6
0911_03	9 ppm	Day : 4	191	0.6	1.9	6
0911_03	9 ppm	Day : 23	198	0.6	2.3	6.4
0912_03	9 ppm	Day : 4	241	0.6	2	5.9

## FEMALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
0912_03	9 ppm	Day : 23	320	0.6	2.6	6.3
0913_03	9 ppm	Day : 4	284	0.6	2.2	6.1
0913_03	9 ppm	Day : 23	150	0.5	2.7	6.8
0914_03	9 ppm	Day : 4	272	0.6	2.1	6
0914_03	9 ppm	Day : 23	288	0.6	2.4	6.5
0915_03	9 ppm	Day : 4	365	0.6	2.4	6
0915_03	9 ppm	Day : 23	219	0.5	2.2	6.2
0916_03	9 ppm	Day : 4	216	0.6	1.9	5.4
0916_03	9 ppm	Day : 23	474	0.6	2.8	6.9
0917_03	9 ppm	Day : 4	505	0.5	2	5.8
0917_03	9 ppm	Day : 23	193	0.5	2.6	6.4
0918_03	9 ppm	Day : 4	294	0.6	1.9	5.8
0918_03	9 ppm	Day : 23	181	0.6	2.5	6.5
0919_03	9 ppm	Day : 4	179	0.6	1.8	5.9
0919_03	9 ppm	Day : 23	143	0.5	2.5	6.5
0920_03	9 ppm	Day : 4	269	0.6	1.8	5.9
0920_03	9 ppm	Day : 23	238	0.5	2.4	6.5
1101_03	18 ppm	Week : 13	208	0.6	2.8	7.7
1102_03	18 ppm	Week : 13	117	0.5	3.2	8.3
1103_03	18 ppm	Week : 13	93	0.7	3.2	7.8
1104_03	18 ppm	Week : 13	83	0.7	2.7	7.7
1105_03	18 ppm	Week : 13	65	0.5	3	7.9

## FEMALE

Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
1106_03	18 ppm	Week : 13	90	0.7	3.1	7.9
1107_03	18 ppm	Week : 13	282	0.7	2.7	7.4
1108_03	18 ppm	Week : 13	184	0.6	2.9	7.5
1109_03	18 ppm	Week : 13	98	0.5	2.4	7.6
1110_03	18 ppm	Week : 13	54	0.6	3.2	7.8
1111_03	18 ppm	Day : 4	253	0.6	1.9	5.2
1112_03	18 ppm	Day : 4	167	0.5	2.2	5.9
1112_03	18 ppm	Day : 23	343	0.6	2.7	6.7
1113_03	18 ppm	Day : 4	418	0.8	1.4	4.9
1114_03	18 ppm	Day : 4	209	0.5	1.9	5.2
1114_03	18 ppm	Day : 23	360	0.5	2.2	6.1
1115_03	18 ppm	Day : 4	228	0.5	1.7	5.1
1115_03	18 ppm	Day : 23	399	0.6	2.4	6.4
1116_03	18 ppm	Day : 4	230	0.6	1.7	4.8
1116_03	18 ppm	Day : 23	166	0.5	2.3	6.3
1117_03	18 ppm	Day : 4	247	0.5	1.9	5.5
1117_03	18 ppm	Day : 23	355	0.7	2.6	6.5
1118_03	18 ppm	Day : 4	176	0.5	1.7	5.2
1118_03	18 ppm	Day : 23	233	0.6	2.5	6.4
1119_03	18 ppm	Day : 4	173	0.7	1.6	5.2
1119_03	18 ppm	Day : 23	224	0.6	2.5	6.4
1120_03	18 ppm	Day : 4	137	0.6	1.6	5.3

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

**P42: Clinical Chemistry Data**

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:48

First Dose M/F: NA / NA

Lab: NA

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**FEMALE**

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Animal No.	Dose	Time In Study	Creatine Kinase IU per L	Creatinine U per L	Globulin g per dL	Protein Total g per dL
1120_03	18 ppm	Day : 23	156	0.6	2.7	6.8

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:48

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
0101_03	0 ppm	Week : 13	24
0102_03	0 ppm	Week : 13	16
0103_03	0 ppm	Week : 13	22
0104_03	0 ppm	Week : 13	16
0105_03	0 ppm	Week : 13	16
0106_03	0 ppm	Week : 13	20
0107_03	0 ppm	Week : 13	19
0108_03	0 ppm	Week : 13	22
0109_03	0 ppm	Week : 13	22
0110_03	0 ppm	Week : 13	14
0111_03	0 ppm	Day : 4	10
0111_03	0 ppm	Day : 23	8
0112_03	0 ppm	Day : 4	9
0112_03	0 ppm	Day : 23	13
0113_03	0 ppm	Day : 4	9
0113_03	0 ppm	Day : 23	11
0114_03	0 ppm	Day : 4	12
0114_03	0 ppm	Day : 23	12
0115_03	0 ppm	Day : 4	11
0115_03	0 ppm	Day : 23	13
0116_03	0 ppm	Day : 4	9
0116_03	0 ppm	Day : 23	11

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:49

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
0117_03	0 ppm	Day : 4	7
0117_03	0 ppm	Day : 23	10
0118_03	0 ppm	Day : 4	8
0118_03	0 ppm	Day : 23	11
0119_03	0 ppm	Day : 4	6
0119_03	0 ppm	Day : 23	11
0120_03	0 ppm	Day : 4	9
0301_03	1.1 ppm	Week : 13	20
0302_03	1.1 ppm	Week : 13	18
0303_03	1.1 ppm	Week : 13	25
0304_03	1.1 ppm	Week : 13	18
0305_03	1.1 ppm	Week : 13	22
0306_03	1.1 ppm	Week : 13	13
0307_03	1.1 ppm	Week : 13	18
0308_03	1.1 ppm	Week : 13	15
0309_03	1.1 ppm	Week : 13	18
0310_03	1.1 ppm	Week : 13	17
0311_03	1.1 ppm	Day : 4	9
0311_03	1.1 ppm	Day : 23	13
0312_03	1.1 ppm	Day : 4	9
0312_03	1.1 ppm	Day : 23	10
0313_03	1.1 ppm	Day : 4	8

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:49

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
0313_03	1.1 ppm	Day : 23	14
0314_03	1.1 ppm	Day : 4	9
0314_03	1.1 ppm	Day : 23	11
0315_03	1.1 ppm	Day : 4	10
0315_03	1.1 ppm	Day : 23	11
0316_03	1.1 ppm	Day : 4	7
0316_03	1.1 ppm	Day : 23	10
0317_03	1.1 ppm	Day : 4	7
0317_03	1.1 ppm	Day : 23	12
0318_03	1.1 ppm	Day : 4	9
0318_03	1.1 ppm	Day : 23	13
0319_03	1.1 ppm	Day : 4	10
0319_03	1.1 ppm	Day : 23	11
0320_03	1.1 ppm	Day : 4	10
0320_03	1.1 ppm	Day : 23	15
0501_03	2.3 ppm	Week : 13	19
0502_03	2.3 ppm	Week : 13	28
0503_03	2.3 ppm	Week : 13	18
0504_03	2.3 ppm	Week : 13	27
0505_03	2.3 ppm	Week : 13	17
0506_03	2.3 ppm	Week : 13	22
0507_03	2.3 ppm	Week : 13	21



Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:49

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
0508_03	2.3 ppm	Week : 13	24
0509_03	2.3 ppm	Week : 13	28
0510_03	2.3 ppm	Week : 13	27
0511_03	2.3 ppm	Day : 4	9
0511_03	2.3 ppm	Day : 23	15
0512_03	2.3 ppm	Day : 4	8
0512_03	2.3 ppm	Day : 23	10
0513_03	2.3 ppm	Day : 4	10
0513_03	2.3 ppm	Day : 23	15
0514_03	2.3 ppm	Day : 4	11
0514_03	2.3 ppm	Day : 23	13
0515_03	2.3 ppm	Day : 4	10
0515_03	2.3 ppm	Day : 23	12
0516_03	2.3 ppm	Day : 4	9
0516_03	2.3 ppm	Day : 23	8
0517_03	2.3 ppm	Day : 4	6
0517_03	2.3 ppm	Day : 23	12
0518_03	2.3 ppm	Day : 4	6
0518_03	2.3 ppm	Day : 23	12
0519_03	2.3 ppm	Day : 4	9
0519_03	2.3 ppm	Day : 23	11
0520_03	2.3 ppm	Day : 4	8

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:49

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
0520_03	2.3 ppm	Day : 23	13
0701_03	4.5 ppm	Week : 13	21
0702_03	4.5 ppm	Week : 13	24
0703_03	4.5 ppm	Week : 13	19
0704_03	4.5 ppm	Week : 13	28
0705_03	4.5 ppm	Week : 13	25
0706_03	4.5 ppm	Week : 13	20
0707_03	4.5 ppm	Week : 13	17
0708_03	4.5 ppm	Week : 13	25
0709_03	4.5 ppm	Week : 13	21
0710_03	4.5 ppm	Week : 13	21
0711_03	4.5 ppm	Day : 4	10
0711_03	4.5 ppm	Day : 23	9
0712_03	4.5 ppm	Day : 4	9
0712_03	4.5 ppm	Day : 23	9
0713_03	4.5 ppm	Day : 4	9
0713_03	4.5 ppm	Day : 23	11
0714_03	4.5 ppm	Day : 4	9
0714_03	4.5 ppm	Day : 23	9
0715_03	4.5 ppm	Day : 4	9
0715_03	4.5 ppm	Day : 23	11
0716_03	4.5 ppm	Day : 4	9

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:49

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
0716_03	4.5 ppm	Day : 23	32*
0717_03	4.5 ppm	Day : 4	10
0717_03	4.5 ppm	Day : 23	13
0718_03	4.5 ppm	Day : 4	9
0718_03	4.5 ppm	Day : 23	14
0719_03	4.5 ppm	Day : 4	8
0719_03	4.5 ppm	Day : 23	12
0720_03	4.5 ppm	Day : 4	8
0720_03	4.5 ppm	Day : 23	9
0901_03	9 ppm	Week : 13	19
0902_03	9 ppm	Week : 13	25
0903_03	9 ppm	Week : 13	25
0904_03	9 ppm	Week : 13	26
0905_03	9 ppm	Week : 13	26
0906_03	9 ppm	Week : 13	21
0907_03	9 ppm	Week : 13	21
0908_03	9 ppm	Week : 13	24
0909_03	9 ppm	Week : 13	22
0910_03	9 ppm	Week : 13	29
0911_03	9 ppm	Day : 4	11
0911_03	9 ppm	Day : 23	19
0912_03	9 ppm	Day : 4	16

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:49

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
0912_03	9 ppm	Day : 23	14
0913_03	9 ppm	Day : 4	9
0913_03	9 ppm	Day : 23	16
0914_03	9 ppm	Day : 4	14
0914_03	9 ppm	Day : 23	13
0915_03	9 ppm	Day : 4	12
0915_03	9 ppm	Day : 23	11
0916_03	9 ppm	Day : 4	12
0916_03	9 ppm	Day : 23	15
0917_03	9 ppm	Day : 4	10
0917_03	9 ppm	Day : 23	15
0918_03	9 ppm	Day : 4	9
0918_03	9 ppm	Day : 23	11
0919_03	9 ppm	Day : 4	12
0919_03	9 ppm	Day : 23	16
0920_03	9 ppm	Day : 4	13
0920_03	9 ppm	Day : 23	13
1101_03	18 ppm	Week : 13	30
1102_03	18 ppm	Week : 13	25
1103_03	18 ppm	Week : 13	31
1104_03	18 ppm	Week : 13	28
1105_03	18 ppm	Week : 13	19

Experiment Number: 05207-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/26/2014

Time Report Requested: 00:43:49

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
1106_03	18 ppm	Week : 13	30
1107_03	18 ppm	Week : 13	30
1108_03	18 ppm	Week : 13	19
1109_03	18 ppm	Week : 13	28
1110_03	18 ppm	Week : 13	19
1111_03	18 ppm	Day : 4	22
1112_03	18 ppm	Day : 4	21
1112_03	18 ppm	Day : 23	20
1113_03	18 ppm	Day : 4	27
1114_03	18 ppm	Day : 4	21
1114_03	18 ppm	Day : 23	26
1115_03	18 ppm	Day : 4	18
1115_03	18 ppm	Day : 23	17
1116_03	18 ppm	Day : 4	19
1116_03	18 ppm	Day : 23	17
1117_03	18 ppm	Day : 4	21
1117_03	18 ppm	Day : 23	33
1118_03	18 ppm	Day : 4	19
1118_03	18 ppm	Day : 23	26
1119_03	18 ppm	Day : 4	22
1119_03	18 ppm	Day : 23	18
1120_03	18 ppm	Day : 4	14

**Experiment Number:** 05207-03

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

**P42: Clinical Chemistry Data**

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

**Time Report Requested:** 00:43:49

**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
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**1120\_03**

**18 ppm**

**Day : 23**

**25**

**\*\* END OF REPORT \*\***