

**Experiment Number:** 05219-03

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

**P42: Clinical Chemistry Data**

**Date Report Requested:** 10/25/2014

**Time Report Requested:** 23:30:24

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

**Lab:** NA

**C Number:** C60913B

**Cage Range:** All

**Date Range:** All

**Reasons For Removal:** All

**Removal Date Range:** All

**Treatment Groups:** All

**Study Gender:** Both

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:24

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
0121_03	0 ppm	Day : 4	4.7	1341	43	6
0121_03	0 ppm	Day : 24				32
0122_03	0 ppm	Day : 4	4.6	1524	49	9
0122_03	0 ppm	Day : 24	4.7	1034	37	17
0123_03	0 ppm	Day : 4	4.7	1518	44	6
0123_03	0 ppm	Day : 24	4.9	1141	37	8
0124_03	0 ppm	Day : 4	4.5	1403	54	23
0124_03	0 ppm	Day : 24	4.7	1052	36	21
0125_03	0 ppm	Day : 4	4.7	1480	42	9
0125_03	0 ppm	Day : 24	4.7	1024	35	20
0126_03	0 ppm	Day : 4	4.8	1521	45	12
0126_03	0 ppm	Day : 24	4.8	1019	37	10
0127_03	0 ppm	Day : 4	4.6	1448	48	7
0127_03	0 ppm	Day : 24	5	1078	40	16
0128_03	0 ppm	Day : 4	4.8	1208	54	21
0128_03	0 ppm	Day : 24	4.7	811	34	14
0129_03	0 ppm	Day : 4	4.7	1464	43	8
0129_03	0 ppm	Day : 24	4.9	1058	37	14
0130_03	0 ppm	Day : 4	4.8	1687	51	13
0130_03	0 ppm	Day : 24	5.1	1138	39	14
0221_03	50 ppm	Day : 4	4.7	1549	48	10
0221_03	50 ppm	Day : 24	4.6	972	40	17

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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
0222_03	50 ppm	Day : 4	4.6	1471	38	7
0222_03	50 ppm	Day : 24	4.8	1024	38	12
0223_03	50 ppm	Day : 4	4.6	1689	43	14
0223_03	50 ppm	Day : 24		1123	66	14
0224_03	50 ppm	Day : 4	4.4	1290	38	10
0224_03	50 ppm	Day : 24	5	961	45	21
0225_03	50 ppm	Day : 4	4.4	1511	47	9
0225_03	50 ppm	Day : 24	4.8	1045	46	18
0226_03	50 ppm	Day : 4	4.7	1544	50	16
0226_03	50 ppm	Day : 24	4.78	969	38	30
0227_03	50 ppm	Day : 4	4.5	1602	50	13
0227_03	50 ppm	Day : 24	4.6	1028	37	20
0228_03	50 ppm	Day : 4	4.3	1360	42	9
0228_03	50 ppm	Day : 24	4.7	1003	59	11
0229_03	50 ppm	Day : 4	4.6	1486	42	10
0229_03	50 ppm	Day : 24	4.8	1163	48	13
0230_03	50 ppm	Day : 4	4.8	1683	49	8
0230_03	50 ppm	Day : 24	4.9	1108	43	17
0321_03	100 ppm	Day : 4	4.3	1471	44	25
0321_03	100 ppm	Day : 24	4.7	1051	43	19
0322_03	100 ppm	Day : 4	4.5	1430	44	12
0322_03	100 ppm	Day : 24	5	1026	48	16

## 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
0322_03	100 ppm	Day : 24	5	1026	48	16
0323_03	100 ppm	Day : 4	4.5	1619	54	17
0323_03	100 ppm	Day : 24	5.2	1217	57	16
0324_03	100 ppm	Day : 4	4.7	1387	53	14
0324_03	100 ppm	Day : 24	4.8	923	46	18
0325_03	100 ppm	Day : 4	4.4	1565	42	16
0325_03	100 ppm	Day : 24	4.9	1084	50	15
0326_03	100 ppm	Day : 4	4.8	1550	47	17
0326_03	100 ppm	Day : 24	4.9	1047	84	17
0327_03	100 ppm	Day : 4	4.7	1447	45	11
0327_03	100 ppm	Day : 24	4.6	980	50	10
0328_03	100 ppm	Day : 4	4.4	1471	46	7
0328_03	100 ppm	Day : 24	4.7	991	47	18
0329_03	100 ppm	Day : 4	4.8	1518	51	9
0329_03	100 ppm	Day : 24	5.1	1000	50	23
0330_03	100 ppm	Day : 4	4.4	1494	59	23
0330_03	100 ppm	Day : 24	4.8	909	149	19
0421_03	200 ppm	Day : 4	4.6	1580	51	5
0421_03	200 ppm	Day : 24	4.8	999	68	19
0422_03	200 ppm	Day : 4	4.8	1564	63	18
0422_03	200 ppm	Day : 24	4.9	1038	78	12
0423_03	200 ppm	Day : 4	4.6	1325	51	10

## 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
0423_03	200 ppm	Day : 24	5	886	69	19
0424_03	200 ppm	Day : 4	4.5	1481	50	9
0424_03	200 ppm	Day : 24	4.9	1012	66	15
0425_03	200 ppm	Day : 4	4.4	1269	52	9
0425_03	200 ppm	Day : 24	5	913	77	21
0426_03	200 ppm	Day : 4	4.5	1466	56	4
0426_03	200 ppm	Day : 24	4.8	958	53	12
0427_03	200 ppm	Day : 4	4.5	1414	50	11
0427_03	200 ppm	Day : 24	5.2	955	76	20
0428_03	200 ppm	Day : 4	4.1	1508	52	14
0428_03	200 ppm	Day : 24	4.6	1052	60	21
0429_03	200 ppm	Day : 4	4.3	1448	54	16
0429_03	200 ppm	Day : 24	4.9	972	58	11
0430_03	200 ppm	Day : 4	4.4	1569	50	13
0430_03	200 ppm	Day : 24	4.9	961	85	17
0521_03	400 ppm	Day : 4	4.5	1497	58	20
0521_03	400 ppm	Day : 24	5	1000	101	42
0522_03	400 ppm	Day : 4	4.5	1411	77	12
0522_03	400 ppm	Day : 24	5.1	889	91	57
0523_03	400 ppm	Day : 4	4.2	1481	65	20
0523_03	400 ppm	Day : 24	4.9	1074	106	22
0524_03	400 ppm	Day : 4	4.3	1475	63	25

Experiment Number: 05219-03

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	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0524_03	400 ppm	Day : 4	4.3	1475	63	25
0524_03	400 ppm	Day : 24	5.2	1108	151	28
0525_03	400 ppm	Day : 4	4.3	1406	88	24
0525_03	400 ppm	Day : 24	5.2	903	150	15
0526_03	400 ppm	Day : 4	4.4	1348	85	14
0526_03	400 ppm	Day : 24	4.9	988	77	21
0527_03	400 ppm	Day : 4	4.5	1394	85	26
0527_03	400 ppm	Day : 24	4.6	975	104	40
0528_03	400 ppm	Day : 4	4.6	1555	60	21
0528_03	400 ppm	Day : 24	5.1	1068	140	15
0529_03	400 ppm	Day : 4	4.5	1465	80	12
0529_03	400 ppm	Day : 24	5	932	151	26
0530_03	400 ppm	Day : 4	4.4	1418	76	18
0530_03	400 ppm	Day : 24	5.2	926	155	21
0621_03	800 ppm	Day : 4	4.4	1359	234	35
0621_03	800 ppm	Day : 24	5	905	217	85
0622_03	800 ppm	Day : 4	4.7	1407	199	24
0622_03	800 ppm	Day : 24	5.4	826	630	72
0623_03	800 ppm	Day : 4	4.1	1478	1880	77
0623_03	800 ppm	Day : 24	5.4	901	281	54
0624_03	800 ppm	Day : 4	4.3	1322	123	51
0624_03	800 ppm	Day : 24	5	762	900	144

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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
0625_03	800 ppm	Day : 4	4.6	1157	232	42
0625_03	800 ppm	Day : 24	5.4	735	213	85
0626_03	800 ppm	Day : 4	4.5	1404	185	33
0626_03	800 ppm	Day : 24	5.1	975	146	24
0627_03	800 ppm	Day : 4	4.5	1357	204	23
0627_03	800 ppm	Day : 24	5.1	815	395	35
0628_03	800 ppm	Day : 4	4.4	1439	170	30
0628_03	800 ppm	Day : 24	5	671	885	174
0629_03	800 ppm	Day : 4	4.5	1396	169	26
0629_03	800 ppm	Day : 24	5	972	215	17
0630_03	800 ppm	Day : 4	4.3	1387	167	27
0630_03	800 ppm	Day : 24	4.8	946	315	40

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0121_03	0 ppm	Day : 4	0.01	26	71	436
0121_03	0 ppm	Day : 24				
0122_03	0 ppm	Day : 4	0.02	30	85	1323
0122_03	0 ppm	Day : 24	0.04	21	76	669
0123_03	0 ppm	Day : 4	0.04	28	75	829
0123_03	0 ppm	Day : 24	0.04	26	69	879
0124_03	0 ppm	Day : 4	0	29	74	2835
0124_03	0 ppm	Day : 24	0.12	22	72	763
0125_03	0 ppm	Day : 4	0	27	80	949
0125_03	0 ppm	Day : 24	0.07	23	72	984
0126_03	0 ppm	Day : 4	0.03	30	84	262
0126_03	0 ppm	Day : 24	0.05	25	73	809
0127_03	0 ppm	Day : 4	0.01	30	67	550
0127_03	0 ppm	Day : 24	0.08	27	69	1093
0128_03	0 ppm	Day : 4	0	31		1326
0128_03	0 ppm	Day : 24	0.05	22	68	703
0129_03	0 ppm	Day : 4	0	28	74	673
0129_03	0 ppm	Day : 24	0.09	24	66	597
0130_03	0 ppm	Day : 4	0	26	63	973
0130_03	0 ppm	Day : 24	0.02	22	66	745
0221_03	50 ppm	Day : 4	0	27	109	476
0221_03	50 ppm	Day : 24	0.05	20	84	941

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Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0222_03	50 ppm	Day : 4	0	29	83	637
0222_03	50 ppm	Day : 24	0	23	78	739
0223_03	50 ppm	Day : 4	0.05	27	94	546
0223_03	50 ppm	Day : 24				
0224_03	50 ppm	Day : 4	0	29	105	339
0224_03	50 ppm	Day : 24	0	23	87	485
0225_03	50 ppm	Day : 4	0	30	87	1015
0225_03	50 ppm	Day : 24	0.05	25	80	1251
0226_03	50 ppm	Day : 4	0.01	26	84	554
0226_03	50 ppm	Day : 24	0.05	21	74	674
0227_03	50 ppm	Day : 4	0.01	29	108	1515
0227_03	50 ppm	Day : 24	0.02	25	80	886
0228_03	50 ppm	Day : 4	0.05	28	91	327
0228_03	50 ppm	Day : 24	0.05	26	71	954
0229_03	50 ppm	Day : 4	0.01	32	102	872
0229_03	50 ppm	Day : 24	0.06	26	83	778
0230_03	50 ppm	Day : 4	0	32	110	725
0230_03	50 ppm	Day : 24	0.02	24	93	948
0321_03	100 ppm	Day : 4	0.01	24	106	1106
0321_03	100 ppm	Day : 24	0.08	24	81	587
0322_03	100 ppm	Day : 4	0.02	27	123	486
0322_03	100 ppm	Day : 24	0.05	23	97	595

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Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0323_03	100 ppm	Day : 4	0.02	31	109	397
0323_03	100 ppm	Day : 24	0.05	25	80	741
0324_03	100 ppm	Day : 4	0	29	98	704
0324_03	100 ppm	Day : 24	0.09	21	81	544
0325_03	100 ppm	Day : 4	0.06	26	111	383
0325_03	100 ppm	Day : 24	0.11	24	82	435
0326_03	100 ppm	Day : 4	0	26	112	338
0326_03	100 ppm	Day : 24	0.04	23	85	955
0327_03	100 ppm	Day : 4	0.02	29	136	577
0327_03	100 ppm	Day : 24	0.1	21	79	608
0328_03	100 ppm	Day : 4	0	30	103	525
0328_03	100 ppm	Day : 24	0.06	22	73	691
0329_03	100 ppm	Day : 4	0.06	27	110	764
0329_03	100 ppm	Day : 24	0.06	20	87	753
0330_03	100 ppm	Day : 4	0	30	108	873
0330_03	100 ppm	Day : 24	0.04	26	72	1097
0421_03	200 ppm	Day : 4	0.07	29	110	547
0421_03	200 ppm	Day : 24	0.07	22	83	745
0422_03	200 ppm	Day : 4	0	26	120	954
0422_03	200 ppm	Day : 24	0.05	23	85	721
0423_03	200 ppm	Day : 4	0.01	27	118	411
0423_03	200 ppm	Day : 24	0.05	22	85	604

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

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First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0424_03	200 ppm	Day : 4	0.02	27	107	657
0424_03	200 ppm	Day : 24	0.04	23	80	681
0425_03	200 ppm	Day : 4	0.02	28	97	561
0425_03	200 ppm	Day : 24	0.05	23	86	954
0426_03	200 ppm	Day : 4		26	109	1062
0426_03	200 ppm	Day : 24	0.12	24	80	806
0427_03	200 ppm	Day : 4	0	28	106	660
0427_03	200 ppm	Day : 24	0	24	88	1765
0428_03	200 ppm	Day : 4	0.11	31	133	395
0428_03	200 ppm	Day : 24	0.07	27	82	572
0429_03	200 ppm	Day : 4	0	26	115	392
0429_03	200 ppm	Day : 24	0.12	29	89	535
0430_03	200 ppm	Day : 4	0	25	107	572
0430_03	200 ppm	Day : 24	0.1	24	78	367
0521_03	400 ppm	Day : 4	0	29	122	463
0521_03	400 ppm	Day : 24	0	23	82	1022
0522_03	400 ppm	Day : 4	0.01	31	103	620
0522_03	400 ppm	Day : 24	0.02	21	79	647
0523_03	400 ppm	Day : 4	0.03	29	118	376
0523_03	400 ppm	Day : 24	0.1	22	82	552
0524_03	400 ppm	Day : 4	0.06	30	114	455
0524_03	400 ppm	Day : 24	0	24	84	2950

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First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0525_03	400 ppm	Day : 4	0	29	103	1240
0525_03	400 ppm	Day : 24	0.08	23	88	888
0526_03	400 ppm	Day : 4	0	30	129	1150
0526_03	400 ppm	Day : 24	0.09	23	88	648
0527_03	400 ppm	Day : 4	0.08	26	130	775
0527_03	400 ppm	Day : 24	0.1	23	75	837
0528_03	400 ppm	Day : 4	0.01	30	120	523
0528_03	400 ppm	Day : 24	0.08	24	86	1081
0529_03	400 ppm	Day : 4	0.02	31	113	722
0529_03	400 ppm	Day : 24	0.01	25	74	1370
0530_03	400 ppm	Day : 4	0.04	27	109	681
0530_03	400 ppm	Day : 24	0.05	28	75	1168
0621_03	800 ppm	Day : 4	0	26	101	658
0621_03	800 ppm	Day : 24	0	25	84	1363
0622_03	800 ppm	Day : 4	0.1	27	120	658
0622_03	800 ppm	Day : 24	0.06	24	91	1226
0623_03	800 ppm	Day : 4	0.09	23	102	647
0623_03	800 ppm	Day : 24	0	27	90	1572
0624_03	800 ppm	Day : 4	0	31	101	1186
0624_03	800 ppm	Day : 24	0.1	23	83	1296
0625_03	800 ppm	Day : 4	0.08	28	112	862
0625_03	800 ppm	Day : 24	0.07	20	109	611

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First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0626_03	800 ppm	Day : 4	0.04	29	114	477
0626_03	800 ppm	Day : 24	0	29	95	1295
0627_03	800 ppm	Day : 4	0.05	29	110	1031
0627_03	800 ppm	Day : 24	0.1	21	92	928
0628_03	800 ppm	Day : 4	0	29	91	1266
0628_03	800 ppm	Day : 24	0.11	23	95	1066
0629_03	800 ppm	Day : 4	0.05	29	120	734
0629_03	800 ppm	Day : 24	0.05	23	85	1079
0630_03	800 ppm	Day : 4	0.02	32	119	799
0630_03	800 ppm	Day : 24	0.11	26	84	1292

## MALE

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0121_03	0 ppm	Day : 4	0.6	7.8	6.7	17.8
0121_03	0 ppm	Day : 24		31.8		55.8*
0122_03	0 ppm	Day : 4	0.6	19.8	6.6	19.6
0122_03	0 ppm	Day : 24	0.5	10.6	6.5	15.9
0123_03	0 ppm	Day : 4	0.5	10.6	6.6	19.6
0123_03	0 ppm	Day : 24	0.5	9.9	6.8	11
0124_03	0 ppm	Day : 4	0.5	24.8	6.5	19
0124_03	0 ppm	Day : 24	0.5	17	6.5	15.9
0125_03	0 ppm	Day : 4	0.6	9.2	6.6	22.1
0125_03	0 ppm	Day : 24	0.5	11.3	6.7	10.4
0126_03	0 ppm	Day : 4	0.6	5.7	6.8	20.8
0126_03	0 ppm	Day : 24	0.5	8.5	6.8	12.3
0127_03	0 ppm	Day : 4	0.5	23.4	6.4	22.1
0127_03	0 ppm	Day : 24	0.5	12.7	6.8	10.4
0128_03	0 ppm	Day : 4	0.6	19.8	6.6	15.9
0128_03	0 ppm	Day : 24	0.6	10.6	6.5	17.2
0129_03	0 ppm	Day : 4	0.6	9.2	6.7	25.1
0129_03	0 ppm	Day : 24	0.6	9.9	6.8	19.6
0130_03	0 ppm	Day : 4	0.6	19.8	6.7	18.4
0130_03	0 ppm	Day : 24	0.5	12.7	6.9	12.9
0221_03	50 ppm	Day : 4	0.6	16.3	6.3	23.3
0221_03	50 ppm	Day : 24	0.4	19.1	6.4	11

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**MALE**


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Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0222_03	50 ppm	Day : 4	0.6	9.9	6.5	15.9
0222_03	50 ppm	Day : 24	0.5	9.9	6.7	14.7
0223_03	50 ppm	Day : 4	0.5	9.2	6.5	17.2
0223_03	50 ppm	Day : 24		16.3		14.1
0224_03	50 ppm	Day : 4	0.5	6.4	6.2	19
0224_03	50 ppm	Day : 24	0.6	8.5	6.9	23.9
0225_03	50 ppm	Day : 4	0.6	12.7	6.2	13.5
0225_03	50 ppm	Day : 24	0.5	16.3	6.8	11.7
0226_03	50 ppm	Day : 4	0.5	9.9	6.5	22.7
0226_03	50 ppm	Day : 24	0.5	12	6.7	14.7
0227_03	50 ppm	Day : 4	0.5	22.6	6.2	13.5
0227_03	50 ppm	Day : 24	0.5	14.9	6.5	9.8
0228_03	50 ppm	Day : 4	0.5	8.5	6	20.2
0228_03	50 ppm	Day : 24	0.5	13.4	6.5	14.1
0229_03	50 ppm	Day : 4	0.6	9.2	6.3	20.2
0229_03	50 ppm	Day : 24	0.5	13.4	6.7	13.5
0230_03	50 ppm	Day : 4	0.6	10.6	6.5	23.9
0230_03	50 ppm	Day : 24	0.5	14.2	6.7	10.4
0321_03	100 ppm	Day : 4	0.5	20.5	6.2	22.7
0321_03	100 ppm	Day : 24	0.5	9.2	6.7	22.7
0322_03	100 ppm	Day : 4	0.6	9.2	6.3	18.4
0322_03	100 ppm	Day : 24	0.5	7.1	7	16.6

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**MALE**


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Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0322_03	100 ppm	Day : 24	0.5	7.1	7	16.6
0323_03	100 ppm	Day : 4	0.5	7.8	6.3	23.3
0323_03	100 ppm	Day : 24	0.6	14.9	7.1	20.2
0324_03	100 ppm	Day : 4	0.6	15.6	6.7	17.8
0324_03	100 ppm	Day : 24	0.5	14.2	6.8	19
0325_03	100 ppm	Day : 4	0.5	7.1	6.2	21.5
0325_03	100 ppm	Day : 24	0.5	7.1	6.9	27.6
0326_03	100 ppm	Day : 4	0.5	7.8	6.7	22.7
0326_03	100 ppm	Day : 24	0.5	18.4	7	18.4
0327_03	100 ppm	Day : 4	0.5	7.1	6.5	20.8
0327_03	100 ppm	Day : 24	0.5	9.9	6.5	21.5
0328_03	100 ppm	Day : 4	0.5	8.5	6.2	21.5
0328_03	100 ppm	Day : 24	0.5	9.2	6.7	16.6
0329_03	100 ppm	Day : 4	0.6	8.5	7	24.5
0329_03	100 ppm	Day : 24	0.5	14.9	7.2	12.9
0330_03	100 ppm	Day : 4	0.6	29.7	6.2	35.6
0330_03	100 ppm	Day : 24	0.5	36.1	6.7	64.4
0421_03	200 ppm	Day : 4	0.6	9.9	6.4	28.2
0421_03	200 ppm	Day : 24	0.5	13.4	6.7	27.6
0422_03	200 ppm	Day : 4	0.6	33.3	6.7	29.4
0422_03	200 ppm	Day : 24	0.5	12.7	6.8	35.6
0423_03	200 ppm	Day : 4	0.6	14.9	6.4	33.7

## MALE

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0423_03	200 ppm	Day : 24	0.5	12.7	7	38.6
0424_03	200 ppm	Day : 4	0.6	13.4	6.4	28.8
0424_03	200 ppm	Day : 24	0.5	10.6	6.8	28.8
0425_03	200 ppm	Day : 4	0.6	9.9	6.2	22.1
0425_03	200 ppm	Day : 24	0.5	22.6	7	36.8
0426_03	200 ppm	Day : 4	0.5	9.9	6.3	30.7
0426_03	200 ppm	Day : 24	0.5	18.4	6.7	23.3
0427_03	200 ppm	Day : 4	0.6	11.3	6.3	22.1
0427_03	200 ppm	Day : 24	0.5	24.1	7.4	33.1
0428_03	200 ppm	Day : 4	0.5	7.8	5.7	26.4
0428_03	200 ppm	Day : 24	0.5	14.9	6.4	30.7
0429_03	200 ppm	Day : 4	0.6	9.9	6.2	28.2
0429_03	200 ppm	Day : 24	0.5	8.5	7	28.8
0430_03	200 ppm	Day : 4	0.6	7.1	6.2	31.3
0430_03	200 ppm	Day : 24	0.5	7.1	6.9	48.4
0521_03	400 ppm	Day : 4	0.5	12	6.3	38.6
0521_03	400 ppm	Day : 24	0.5	12.7	6.7	44.8
0522_03	400 ppm	Day : 4	0.5	9.9	6.4	42.3
0522_03	400 ppm	Day : 24	0.5	12	6.9	42.3
0523_03	400 ppm	Day : 4	0.5	14.9	5.8	41.7
0523_03	400 ppm	Day : 24	0.5	9.9	6.9	50.3
0524_03	400 ppm	Day : 4	0.5	10.6	6	38

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

## P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:25

First Dose M/F: NA / NA

Lab: NA

## MALE

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0524_03	400 ppm	Day : 4	0.5	10.6	6	38
0524_03	400 ppm	Day : 24	0.6	30.4	7.4	56.4
0525_03	400 ppm	Day : 4	0.5	19.1	6	39.9
0525_03	400 ppm	Day : 24	0.5	23.4	7.4	63.8
0526_03	400 ppm	Day : 4	0.5	17.7	6.1	59.5
0526_03	400 ppm	Day : 24	0.4	12	6.8	38.6
0527_03	400 ppm	Day : 4	0.5	26.9	6.3	49.1
0527_03	400 ppm	Day : 24	0.5	14.9	6.3	52.1
0528_03	400 ppm	Day : 4	0.6	13.4	6.4	36.8
0528_03	400 ppm	Day : 24	0.5	16.3	7.1	58.9
0529_03	400 ppm	Day : 4	0.5	12.7	6.2	39.9
0529_03	400 ppm	Day : 24	0.5	22.6	6.8	74.8
0530_03	400 ppm	Day : 4	0.5	8.5	6.1	42.3
0530_03	400 ppm	Day : 24	0.6	21.9	7.1	65
0621_03	800 ppm	Day : 4	0.6	29	6	87.1
0621_03	800 ppm	Day : 24	0.5	44.6	6.8	90.1
0622_03	800 ppm	Day : 4	0.6	17	6.5	89.5
0622_03	800 ppm	Day : 24	0.5	172.7	7.6	328
0623_03	800 ppm	Day : 4	0.5	92.7	5.8	632
0623_03	800 ppm	Day : 24	0.6	69.3	7.4	153.5
0624_03	800 ppm	Day : 4	0.5	26.2	6	51.5
0624_03	800 ppm	Day : 24	0.5	130.9	6.7	561

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:25

First Dose M/F: NA / NA

Lab: NA

**MALE**

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0625_03	800 ppm	Day : 4	0.5	33.3	6.4	98.7
0625_03	800 ppm	Day : 24	0.6	34	7.4	141
0626_03	800 ppm	Day : 4	0.5	13.4	6.2	70.5
0626_03	800 ppm	Day : 24	0.6	39.6	7	83
0627_03	800 ppm	Day : 4	0.5	23.4	6.1	84
0627_03	800 ppm	Day : 24	0.5	43.2	7	236
0628_03	800 ppm	Day : 4	0.5	43.2	5.9	57.6
0628_03	800 ppm	Day : 24	0.5	164.2	6.9	647
0629_03	800 ppm	Day : 4	0.6	31.8	6.1	60.7
0629_03	800 ppm	Day : 24	0.5	33.3	6.9	147
0630_03	800 ppm	Day : 4	0.5	19.1	5.7	64.4
0630_03	800 ppm	Day : 24	0.6	55.9	6.6	121.4

## 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
0151_03	0 ppm	Day : 4	4.8	1412	45	19
0151_03	0 ppm	Day : 24	4.9	894	35	8
0152_03	0 ppm	Day : 4	4.6	1231	43	14
0152_03	0 ppm	Day : 24	4.6	802	29	10
0153_03	0 ppm	Day : 4	4.8	1143	44	17
0153_03	0 ppm	Day : 24	4.7	708	28	5
0154_03	0 ppm	Day : 4	4.8	1271	52	17
0154_03	0 ppm	Day : 24	4.5	799	27	9
0155_03	0 ppm	Day : 4	4.6	1230	38	11
0155_03	0 ppm	Day : 24	4.8	841	33	19
0156_03	0 ppm	Day : 4	4.7	1317	40	9
0156_03	0 ppm	Day : 24	4.6	871	36	6
0157_03	0 ppm	Day : 4	4.8	1360	40	15
0157_03	0 ppm	Day : 24	4.8	959	32	8
0158_03	0 ppm	Day : 4	4.4	1121	36	18
0158_03	0 ppm	Day : 24	4.2	740	30	16
0159_03	0 ppm	Day : 4	4.6	1091	37	16
0159_03	0 ppm	Day : 24	4.8	754	31	5
0160_03	0 ppm	Day : 4	4.9	1317	45	14
0160_03	0 ppm	Day : 24	4.8	983	35	10
0251_03	50 ppm	Day : 4	4.7	1329	44	15
0251_03	50 ppm	Day : 24	4.3	847	31	14

## 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
0252_03	50 ppm	Day : 4	4.4	1304	35	13
0252_03	50 ppm	Day : 24	4.8	960	38	9
0253_03	50 ppm	Day : 4	4.7	1412	44	11
0253_03	50 ppm	Day : 24	4.7	817	33	4
0254_03	50 ppm	Day : 4	4.6	1079	39	10
0254_03	50 ppm	Day : 24	4.7	784	33	17
0255_03	50 ppm	Day : 4	4.6	1182	38	11
0255_03	50 ppm	Day : 24	4.9	848	44	22
0256_03	50 ppm	Day : 4	4.5	1179	46	21
0256_03	50 ppm	Day : 24	4.7	882	26	9
0257_03	50 ppm	Day : 4	4.6	1099	43	11
0257_03	50 ppm	Day : 24	4.6	751	32	5
0258_03	50 ppm	Day : 4	4.7	1332	44	17
0258_03	50 ppm	Day : 24	4.8	888	35	13
0259_03	50 ppm	Day : 4	4.4	1204	33	28
0259_03	50 ppm	Day : 24	4.8	831	40	16
0260_03	50 ppm	Day : 4	4.6	1126	40	28
0260_03	50 ppm	Day : 24	4.6	812	39	18
0351_03	100 ppm	Day : 4	4.5	1247	43	15
0351_03	100 ppm	Day : 24	4.6	864	35	9
0352_03	100 ppm	Day : 4	4.6	1242	36	7
0352_03	100 ppm	Day : 24	4.1	800	34	10

## 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
0352_03	100 ppm	Day : 24	4.1	800	34	10
0353_03	100 ppm	Day : 4	4.7	1193	43	16
0353_03	100 ppm	Day : 24	4.6	848	32	11
0354_03	100 ppm	Day : 4	4.7	1386	45	16
0354_03	100 ppm	Day : 24	4.8	919	41	8
0355_03	100 ppm	Day : 4	4.7	1199	46	18
0355_03	100 ppm	Day : 24	4.8	815	34	17
0356_03	100 ppm	Day : 4	4.4	1203	38	15
0356_03	100 ppm	Day : 24	4.6	726	31	8
0357_03	100 ppm	Day : 4	4.5	1167	36	14
0357_03	100 ppm	Day : 24	4.4	777	39	7
0358_03	100 ppm	Day : 4	4.3	1111	35	25
0358_03	100 ppm	Day : 24	4.4	691	37	10
0359_03	100 ppm	Day : 4	4.7	1154	37	12
0359_03	100 ppm	Day : 24	4.6	822	33	14
0360_03	100 ppm	Day : 4	4.5	1178	36	22
0360_03	100 ppm	Day : 24	4.6	772	39	22
0451_03	200 ppm	Day : 4	4.5	1111	38	14
0451_03	200 ppm	Day : 24	4.5	830	33	15
0452_03	200 ppm	Day : 4	4.7	1366	44	19
0452_03	200 ppm	Day : 24	4.5	902	41	12
0453_03	200 ppm	Day : 4	4.5	1075	45	14

## 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
0453_03	200 ppm	Day : 24	4.7	793	36	10
0454_03	200 ppm	Day : 4	4.8	1384	47	16
0454_03	200 ppm	Day : 24	4.1	936	41	19
0455_03	200 ppm	Day : 4	4.7	1305	36	16
0455_03	200 ppm	Day : 24	4.6	903	35	9
0456_03	200 ppm	Day : 4	4.8	1185	48	20
0456_03	200 ppm	Day : 24	4.6	714	39	21
0457_03	200 ppm	Day : 4	4.2	1120	36	15
0457_03	200 ppm	Day : 24	4.6	775	35	11
0458_03	200 ppm	Day : 4	4.5	1215	38	17
0458_03	200 ppm	Day : 24	4.8	861	46	19
0459_03	200 ppm	Day : 4	4.6	1159	41	19
0459_03	200 ppm	Day : 24	4.4	698	39	29
0460_03	200 ppm	Day : 4	4.6	1277	38	12
0460_03	200 ppm	Day : 24	4.7	918	34	12
0551_03	400 ppm	Day : 4	4.6	1200	49	17
0551_03	400 ppm	Day : 24	4.5	892	51	10
0552_03	400 ppm	Day : 4	4.6	1073	47	16
0552_03	400 ppm	Day : 24	4.7	911	44	12
0553_03	400 ppm	Day : 4	4.5	1117	40	15
0553_03	400 ppm	Day : 24	4.7	850	62	36
0554_03	400 ppm	Day : 4	4.7	1159	60	19

## 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
0554_03	400 ppm	Day : 4	4.7	1159	60	19
0554_03	400 ppm	Day : 24	4.3	792	38	23
0555_03	400 ppm	Day : 4	4.4	1224	48	24
0555_03	400 ppm	Day : 24	4.4	865	39	34
0556_03	400 ppm	Day : 4	4.7	1206	51	14
0556_03	400 ppm	Day : 24	4.5	831	41	22
0557_03	400 ppm	Day : 4	4.5	1199	37	20
0557_03	400 ppm	Day : 24	4.2	906	37	26
0558_03	400 ppm	Day : 4	4.7	1154	40	21
0558_03	400 ppm	Day : 24	4.4	789	49	43
0559_03	400 ppm	Day : 4	4.2	954	36	12
0559_03	400 ppm	Day : 24	4.6	837	41	8
0560_03	400 ppm	Day : 4	4.7	1056	48	29
0560_03	400 ppm	Day : 24	4.5	807	36	24
0651_03	800 ppm	Day : 4	4.6	1052	247	46
0651_03	800 ppm	Day : 24	4.7	667	115	35
0652_03	800 ppm	Day : 4	4.4	1043	425	46
0652_03	800 ppm	Day : 24	4.5	677	106	134
0653_03	800 ppm	Day : 4	4.6	1032	175	34
0653_03	800 ppm	Day : 24	4.6	839	56	36
0654_03	800 ppm	Day : 4	4.4	993	65	23
0654_03	800 ppm	Day : 24	4.8	629	93	46

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:25

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	ALP IU per L	ALT IU per L	Bile Acids Per G Tissue umol per g
0655_03	800 ppm	Day : 4	4.7	1193	75	21
0655_03	800 ppm	Day : 24	4.9	698		51
0656_03	800 ppm	Day : 4	4.4	1087	111	25
0656_03	800 ppm	Day : 24	4.7	665	91	72
0657_03	800 ppm	Day : 4	4.4	1008	321	56
0657_03	800 ppm	Day : 24	4.7	668	124	29
0658_03	800 ppm	Day : 4	4.6	954	122	24
0658_03	800 ppm	Day : 24	4.6	657	71	107
0659_03	800 ppm	Day : 4	4.5	970	66	22
0659_03	800 ppm	Day : 24	4	515	102	31
0660_03	800 ppm	Day : 4	4.3	926	109	51
0660_03	800 ppm	Day : 24	4.7	730	125	131

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:25

First Dose M/F: NA / NA

Lab: NA

FEMALE

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0151_03	0 ppm	Day : 4	0	27	105	427
0151_03	0 ppm	Day : 24	0	22	95	491
0152_03	0 ppm	Day : 4	0.02	26	105	364
0152_03	0 ppm	Day : 24	0.01	18	84	387
0153_03	0 ppm	Day : 4	0.05	23	86	271
0153_03	0 ppm	Day : 24	0.03	21	84	396
0154_03	0 ppm	Day : 4	0	29	94	347
0154_03	0 ppm	Day : 24	0	21	83	330
0155_03	0 ppm	Day : 4	0.01	24	90	341
0155_03	0 ppm	Day : 24	0.04	24	90	543
0156_03	0 ppm	Day : 4	0	29	99	453
0156_03	0 ppm	Day : 24	0	26	77	684
0157_03	0 ppm	Day : 4	0.03	26	100	381
0157_03	0 ppm	Day : 24	0.03	24	89	412
0158_03	0 ppm	Day : 4	0.05	30	97	414
0158_03	0 ppm	Day : 24	0.02	23	84	424
0159_03	0 ppm	Day : 4	0.01	26	92	391
0159_03	0 ppm	Day : 24	0.02	26	95	281
0160_03	0 ppm	Day : 4	0	30	100	349
0160_03	0 ppm	Day : 24	0.03	25	104	224
0251_03	50 ppm	Day : 4	0.01	27	132	549
0251_03	50 ppm	Day : 24	0	23	106	591

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:25

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0252_03	50 ppm	Day : 4	0	27	116	406
0252_03	50 ppm	Day : 24	0	22	113	656
0253_03	50 ppm	Day : 4	0	26	124	217
0253_03	50 ppm	Day : 24	0	25	109	491
0254_03	50 ppm	Day : 4	0.01	24	117	476
0254_03	50 ppm	Day : 24	0	23	106	405
0255_03	50 ppm	Day : 4	0.01	21	120	326
0255_03	50 ppm	Day : 24	0	24	102	933
0256_03	50 ppm	Day : 4	0.02	25	112	427
0256_03	50 ppm	Day : 24	0.01	26	100	329
0257_03	50 ppm	Day : 4	0.02	24	117	262
0257_03	50 ppm	Day : 24	0.02	27	97	377
0258_03	50 ppm	Day : 4	0.01	30	120	426
0258_03	50 ppm	Day : 24	0	25	100	664
0259_03	50 ppm	Day : 4	0.03	22	119	399
0259_03	50 ppm	Day : 24	0	22	118	2264
0260_03	50 ppm	Day : 4	0.07	30	125	418
0260_03	50 ppm	Day : 24	0.01	27	106	581
0351_03	100 ppm	Day : 4	0	27	135	612
0351_03	100 ppm	Day : 24	0.08	25	100	271
0352_03	100 ppm	Day : 4	0.01	28	123	318
0352_03	100 ppm	Day : 24	0	30	88	672

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:25

First Dose M/F: NA / NA

Lab: NA

FEMALE

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0353_03	100 ppm	Day : 4	0	23	141	251
0353_03	100 ppm	Day : 24	0.01	24	104	412
0354_03	100 ppm	Day : 4	0.03	30	168	579
0354_03	100 ppm	Day : 24	0	29	115	1187
0355_03	100 ppm	Day : 4	0	22	136	324
0355_03	100 ppm	Day : 24	0	26	110	232
0356_03	100 ppm	Day : 4	0.08	28	132	335
0356_03	100 ppm	Day : 24	0.02	28	109	399
0357_03	100 ppm	Day : 4	0	22	140	547
0357_03	100 ppm	Day : 24	0.01	24	102	625
0358_03	100 ppm	Day : 4	0	26	122	531
0358_03	100 ppm	Day : 24	0.04	25	107	430
0359_03	100 ppm	Day : 4	0.03	23	133	168
0359_03	100 ppm	Day : 24	0.02	31	111	448
0360_03	100 ppm	Day : 4	0.01	27	135	346
0360_03	100 ppm	Day : 24	0.07	25	112	1005
0451_03	200 ppm	Day : 4	0.07	21	138	242
0451_03	200 ppm	Day : 24	0	19	116	443
0452_03	200 ppm	Day : 4	0	24	165	1279
0452_03	200 ppm	Day : 24	0	21	119	1030
0453_03	200 ppm	Day : 4	0	25	136	432
0453_03	200 ppm	Day : 24	0.02	21	127	305

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:25

First Dose M/F: NA / NA

Lab: NA

FEMALE

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0454_03	200 ppm	Day : 4	0	25	198	723
0454_03	200 ppm	Day : 24	0.03	22	120	609
0455_03	200 ppm	Day : 4	0	29	154	557
0455_03	200 ppm	Day : 24	0.01	26	119	527
0456_03	200 ppm	Day : 4	0	27	146	579
0456_03	200 ppm	Day : 24	0.03	22	119	309
0457_03	200 ppm	Day : 4	0.06	21	133	366
0457_03	200 ppm	Day : 24	0	22	105	905
0458_03	200 ppm	Day : 4	0	26	144	456
0458_03	200 ppm	Day : 24	0	23	122	280
0459_03	200 ppm	Day : 4	0	32	154	296
0459_03	200 ppm	Day : 24	0.02	23	113	483
0460_03	200 ppm	Day : 4	0	28	156	799
0460_03	200 ppm	Day : 24	0.03	24	106	394
0551_03	400 ppm	Day : 4	0	29	155	592
0551_03	400 ppm	Day : 24	0.01	26	107	499
0552_03	400 ppm	Day : 4	0.01	25	145	724
0552_03	400 ppm	Day : 24	0.03	28	110	881
0553_03	400 ppm	Day : 4	0	27	139	866
0553_03	400 ppm	Day : 24	0	28	114	363
0554_03	400 ppm	Day : 4	0	31	153	496
0554_03	400 ppm	Day : 24	0	26	117	915

## FEMALE

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0555_03	400 ppm	Day : 4	0.04	28	125	503
0555_03	400 ppm	Day : 24	0.02	27	107	436
0556_03	400 ppm	Day : 4	0.03	30	141	472
0556_03	400 ppm	Day : 24	0.03	27	100	602
0557_03	400 ppm	Day : 4	0	28	140	624
0557_03	400 ppm	Day : 24	0.05	23	119	246
0558_03	400 ppm	Day : 4	0	25	134	327
0558_03	400 ppm	Day : 24	0	25	116	579
0559_03	400 ppm	Day : 4	0.06	26	132	395
0559_03	400 ppm	Day : 24	0.04	26	101	546
0560_03	400 ppm	Day : 4	0	23	150	798
0560_03	400 ppm	Day : 24	0	24	118	324
0651_03	800 ppm	Day : 4	0	27	134	534
0651_03	800 ppm	Day : 24	0.03	20	127	533
0652_03	800 ppm	Day : 4	0	25	127	929
0652_03	800 ppm	Day : 24	0	21	122	558
0653_03	800 ppm	Day : 4	0.01	22	166	816
0653_03	800 ppm	Day : 24	0.07	21	109	461
0654_03	800 ppm	Day : 4	0	24	124	506
0654_03	800 ppm	Day : 24	0	20	110	1436
0655_03	800 ppm	Day : 4	0	27	146	647
0655_03	800 ppm	Day : 24	0.08	22	119	576

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:25

First Dose M/F: NA / NA

Lab: NA

FEMALE

Animal No.	Dose	Time In Study	Bilirubin Total mg per dL	BUN mg per dL	Cholesterol mg per dL	Creatine Kinase IU per L
0656_03	800 ppm	Day : 4	0	28	128	1416
0656_03	800 ppm	Day : 24	0	22	126	1306
0657_03	800 ppm	Day : 4	0	26	135	649
0657_03	800 ppm	Day : 24	0.06	19	102	819
0658_03	800 ppm	Day : 4	0	27	141	759
0658_03	800 ppm	Day : 24	0	24	116	955
0659_03	800 ppm	Day : 4	0	26	155	339
0659_03	800 ppm	Day : 24	0	27	102	1648
0660_03	800 ppm	Day : 4	0	24	126	597
0660_03	800 ppm	Day : 24	0.07	22	141	731

## FEMALE

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0151_03	0 ppm	Day : 4	0.5	14.9	6.4	24.5
0151_03	0 ppm	Day : 24	0.6	6.4	6.7	24.5
0152_03	0 ppm	Day : 4	0.5	16.3	6.1	23.3
0152_03	0 ppm	Day : 24	0.6	4.2	6.2	20.2
0153_03	0 ppm	Day : 4	0.6	7.1	6.3	22.1
0153_03	0 ppm	Day : 24	0.5	5.7	6.3	18.4
0154_03	0 ppm	Day : 4	0.5	10.6	6.5	22.7
0154_03	0 ppm	Day : 24	0.6	7.1	6.2	17.8
0155_03	0 ppm	Day : 4	0.5	9.2	6.2	22.7
0155_03	0 ppm	Day : 24	0.5	13.4	6.5	13.5
0156_03	0 ppm	Day : 4	0.5	10.6	6.4	24.5
0156_03	0 ppm	Day : 24	0.5	9.9	6.3	19
0157_03	0 ppm	Day : 4	0.5	8.5	6.4	25.1
0157_03	0 ppm	Day : 24	0.6	7.8	6.6	23.3
0158_03	0 ppm	Day : 4	0.5	8.5	5.9	22.7
0158_03	0 ppm	Day : 24	0.6	9.2	5.7	22.7
0159_03	0 ppm	Day : 4	0.5	17.7	6.2	21.5
0159_03	0 ppm	Day : 24	0.6	5	6.7	22.1
0160_03	0 ppm	Day : 4	0.6	15.6	6.6	25.1
0160_03	0 ppm	Day : 24	0.6	6.4	6.6	25.8
0251_03	50 ppm	Day : 4	0.6	19.1	6.5	25.1
0251_03	50 ppm	Day : 24	0.5	13.4	5.9	16.6

## FEMALE

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0252_03	50 ppm	Day : 4	0.5	15.6	6	28.8
0252_03	50 ppm	Day : 24	0.6	10.6	6.6	23.3
0253_03	50 ppm	Day : 4	0.5	11.3	6.4	20.8
0253_03	50 ppm	Day : 24	0.6	7.8	6.5	15.9
0254_03	50 ppm	Day : 4	0.5	11.3	6.5	20.8
0254_03	50 ppm	Day : 24	0.6	9.2	6.4	19.6
0255_03	50 ppm	Day : 4	0.5	9.2	6.3	20.8
0255_03	50 ppm	Day : 24	0.6	37.5	6.8	15.9
0256_03	50 ppm	Day : 4	0.5	28.3	6.2	21.5
0256_03	50 ppm	Day : 24	0.6	9.9	6.5	22.1
0257_03	50 ppm	Day : 4	0.5	7.1	6.3	22.7
0257_03	50 ppm	Day : 24	0.6	5	6.3	19
0258_03	50 ppm	Day : 4	0.6	11.3	6.1	25.1
0258_03	50 ppm	Day : 24	0.6	19.8	6.6	15.3
0259_03	50 ppm	Day : 4	0.5	7.1	6.2	25.8
0259_03	50 ppm	Day : 24	0.6	16.3	6.7	19
0260_03	50 ppm	Day : 4	0.6	7.1	6.4	23.9
0260_03	50 ppm	Day : 24	0.6	8.5	6.4	21.5
0351_03	100 ppm	Day : 4	0.5	9.9	6.2	17.8
0351_03	100 ppm	Day : 24	0.6	7.8	6.4	23.9
0352_03	100 ppm	Day : 4	0.6	7.1	6.3	25.8
0352_03	100 ppm	Day : 24	0.5	10.6	5.6	19.6

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**FEMALE**


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Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0352_03	100 ppm	Day : 24	0.5	10.6	5.6	19.6
0353_03	100 ppm	Day : 4	0.5	14.9	6.4	26.4
0353_03	100 ppm	Day : 24	0.6	6.4	6.2	14.7
0354_03	100 ppm	Day : 4	0.5	9.2	6.5	19.6
0354_03	100 ppm	Day : 24	0.6	22.6	6.5	21.5
0355_03	100 ppm	Day : 4	0.5	31.1	6.3	23.9
0355_03	100 ppm	Day : 24	0.5	6.4	6.6	23.3
0356_03	100 ppm	Day : 4	0.5	13.4	6.6	27
0356_03	100 ppm	Day : 24	0.6	5	6.4	23.3
0357_03	100 ppm	Day : 4	0.5	10.6	6.3	18.4
0357_03	100 ppm	Day : 24	0.6	12.7	6.3	20.2
0358_03	100 ppm	Day : 4	0.5	11.3	6.1	22.1
0358_03	100 ppm	Day : 24	0.5	4.2	6.2	23.9
0359_03	100 ppm	Day : 4	0.5	7.1	6.4	20.2
0359_03	100 ppm	Day : 24	0.6	8.5	6.5	22.1
0360_03	100 ppm	Day : 4	0.5	7.1	6.4	27
0360_03	100 ppm	Day : 24	0.6	9.2	6.3	25.1
0451_03	200 ppm	Day : 4	0.5	6.4	6.1	23.3
0451_03	200 ppm	Day : 24	0.5	9.2	6.2	25.1
0452_03	200 ppm	Day : 4	0.7	23.4	6.4	30.7
0452_03	200 ppm	Day : 24	0.5	15.6	6.1	32.5
0453_03	200 ppm	Day : 4	0.6	40.3	6.2	29.4

## FEMALE

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0453_03	200 ppm	Day : 24	0.6	5.7	6.5	31.9
0454_03	200 ppm	Day : 4	0.5	11.3	6.5	35.6
0454_03	200 ppm	Day : 24	0.5	9.9	5.5	26.4
0455_03	200 ppm	Day : 4	0.6	10.6	6.4	28.8
0455_03	200 ppm	Day : 24	0.6	9.2	6.2	19.6
0456_03	200 ppm	Day : 4	0.6	26.2	6.5	28.2
0456_03	200 ppm	Day : 24	0.6	12	6.2	38.6
0457_03	200 ppm	Day : 4	0.5	9.2	5.7	25.8
0457_03	200 ppm	Day : 24	0.6	8.5	6.3	27.6
0458_03	200 ppm	Day : 4	0.6	7.1	6.4	28.8
0458_03	200 ppm	Day : 24	0.6	17	6.6	35.6
0459_03	200 ppm	Day : 4	0.5	6.4	6.1	25.1
0459_03	200 ppm	Day : 24	0.5	17.7	6.4	27.6
0460_03	200 ppm	Day : 4	0.5	12.7	6.3	23.9
0460_03	200 ppm	Day : 24	0.6	8.5	6.5	25.1
0551_03	400 ppm	Day : 4	0.5	9.9	6.2	43.5
0551_03	400 ppm	Day : 24	0.6	7.1	5.9	37.4
0552_03	400 ppm	Day : 4	0.5	17	6.3	42.9
0552_03	400 ppm	Day : 24	0.6	19.1	6.4	22.7
0553_03	400 ppm	Day : 4	0.5	17	6.1	22.7
0553_03	400 ppm	Day : 24	0.6	12	6.2	46.6
0554_03	400 ppm	Day : 4	0.6	21.2	6.2	55.8

## FEMALE

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0554_03	400 ppm	Day : 4	0.6	21.2	6.2	55.8
0554_03	400 ppm	Day : 24	0.5	16.3	5.7	23.9
0555_03	400 ppm	Day : 4	0.5	11.3	5.8	39.9
0555_03	400 ppm	Day : 24	0.6	10.6	6	27
0556_03	400 ppm	Day : 4	0.6	10.6	6.3	46.6
0556_03	400 ppm	Day : 24	0.6	9.9	6	30.7
0557_03	400 ppm	Day : 4	0.6	14.9	6.1	33.7
0557_03	400 ppm	Day : 24	0.5	5.7	5.8	30.7
0558_03	400 ppm	Day : 4	0.5	11.3	6.3	38.6
0558_03	400 ppm	Day : 24	0.6	15.6	6	23.3
0559_03	400 ppm	Day : 4	0.5	8.5	5.8	35.6
0559_03	400 ppm	Day : 24	0.6	7.8	6.1	30
0560_03	400 ppm	Day : 4	0.5	13.4	6.4	38.6
0560_03	400 ppm	Day : 24	0.6	7.1	6.1	28.8
0651_03	800 ppm	Day : 4	0.6	34.7	6.1	134.9
0651_03	800 ppm	Day : 24	0.6	27.6	6.4	64.4
0652_03	800 ppm	Day : 4	0.5	56.6	5.9	190.1
0652_03	800 ppm	Day : 24	0.6	15.6	6.2	58.3
0653_03	800 ppm	Day : 4	0.5	48.1	6.3	104.9
0653_03	800 ppm	Day : 24	0.5	14.2	6.3	30.7
0654_03	800 ppm	Day : 4	0.6	11.3	6.1	44.8
0654_03	800 ppm	Day : 24	0.6	24.8	6.6	49.7

Experiment Number: 05219-03

Species/Strain: Rat/Fischer 344

P42: Clinical Chemistry Data

Date Report Requested: 10/25/2014

Time Report Requested: 23:30:26

First Dose M/F: NA / NA

Lab: NA

**FEMALE**

Animal No.	Dose	Time In Study	Creatinine U per L	Isocitrate Dehydrogenase IU PER L	Protein Total g per dL	SDH IU per L
0655_03	800 ppm	Day : 4	0.6	21.2	6.3	41.1
0655_03	800 ppm	Day : 24	0.6		6.5	
0656_03	800 ppm	Day : 4	0.5	20.5	5.8	57.6
0656_03	800 ppm	Day : 24	0.6	19.1	6.4	50.3
0657_03	800 ppm	Day : 4	0.5	50.2	5.8	273
0657_03	800 ppm	Day : 24	0.6	26.2	6.3	54
0658_03	800 ppm	Day : 4	0.6	34	6.2	74.8
0658_03	800 ppm	Day : 24	0.6	15.6	6.2	31.3
0659_03	800 ppm	Day : 4	0.5	11.3	6.1	50.3
0659_03	800 ppm	Day : 24	0.6	19.8	5.4	55.2
0660_03	800 ppm	Day : 4	0.5	14.2	5.7	59.5
0660_03	800 ppm	Day : 24	0.6	38.2	6.5	83.4

\*\* END OF REPORT \*\*