

ADME NTP Study S0051 Tri-m-cresyl phosphate

The contractor used the abbreviation of TMCP for the test article.

Sex/Species: male F344 rats.

Vehicle: intravenous, Emulphor EL-620:ethanol:water (1:3:6, v/v/v); oral, ethanol:Emulphor EL-620:water (4:3:3, v/v/v).

CASRN 563-04-2

Radiolabeled with carbon-14, position not specified; [¹⁴C]Tri-m-cresyl phosphate

Studies Performed:

- Single 2.0 mg/kg intravenous dose to rats with sacrifice at 0.5, 1, 2, 4, 6, 8, 12, 24, 48, or 72 hours postdose. (n = 3 per time point)
- Single 2.0 or 20.0 mg/kg intravenous dose to bile duct cannulated rats for bile collection with sacrifice at 6 hours postdose. (n = 3 per group)
- Single 0.5, 2.0, 20.0, or 200.0 mg/kg oral gavage dose to rats with sacrifice 9 days postdose. (n = 3)

Toxicokinetics:

Blood and tissue samples were analyzed for parent TMCP by HPLC. Pharmacokinetic parameters for percent dose in blood and tissue decay curves were modeled using the mono-exponential equation $C = C_0e^{-kt}$ for parent TMCP (except for adipose and liver) or biexponential ($C = Ae^{-\alpha t} + Be^{-\beta t}$) equation for total ¹⁴C (and parent TMCP in adipose and liver). Rate constants and half-lives were determined.

The potential absorptive phase for small intestine could not be modeled properly with only two time points. The mean value of the 8-hour percent dose for parent TMCP was eliminated as an outlier from the modeling calculations for the blood elimination curve. The mean value of the total ¹⁴C 6-hour percent dose for muscle and the 12-hour percent dose for spinal cord were eliminated as outliers from the modeling calculations for the respective elimination curves.

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Table 1
 Percent Dose in Excreta after Any of Four Oral Dose
 Levels of TMCP

Dose (mg/kg)	Day	Percent Dose ($\bar{x} \pm \text{SEM}$)	
		Urine	Feces
0.5	1	33.0 \pm 7.98	49.50 \pm 2.37
	2	2.07 \pm 0.47	3.23 \pm 0.38
	3	0.97 \pm 0.09	0.43 \pm 0.19
	4	0.50 \pm 0.15	0.20 \pm 0.00
	5	0.33 \pm 0.03	0.05 \pm 0.00
	6	0.13 \pm 0.03	0.04 \pm 0.00
	7	0.23 \pm 0.03	0.04 \pm 0.01
2.0	1	36.18 \pm 3.63	39.77 \pm 12.53
	2	5.23 \pm 2.26	12.72 \pm 7.26
	3	1.29 \pm 0.36	0.80 \pm 0.22
	4	0.52 \pm 0.06	0.12 \pm 0.03
	5	0.41 \pm 0.08	0.07 \pm 0.02
	6	0.22 \pm 0.03	0.06 \pm 0.02
	7	0.18 \pm 0.01	0.06 \pm 0.03
20.0	1	22.00 \pm 1.84	40.68 \pm 18.77
	2	6.02 \pm 2.61	23.27 \pm 10.47
	3	1.24 \pm 0.44	1.60 \pm 0.69
	4	0.43 \pm 0.13	0.17 \pm 0.06
	5	0.17 \pm 0.03	0.05 \pm 0.01
	6	0.10 \pm 0.01	0.04 \pm 0.01
	7	0.09 \pm 0.02	0.03 \pm 0.01
200.0	1	11.65 \pm 3.02	13.64 \pm 13.49
	2	7.49 \pm 2.01	33.81 \pm 3.24
	3	2.71 \pm 0.51	31.06 \pm 12.22
	4	0.36 \pm 0.08	2.54 \pm 1.26
	5	0.20 \pm 0.05	0.21 \pm 0.06
	6	0.09 \pm 0.02	0.08 \pm 0.01
	7	0.07 \pm 0.02	0.08 \pm 0.02

Table 2
 Cumulative Percent Dose in Excreta after
 Any of Four Oral Dose Levels of TMCP

Dose (mg/kg)	Day	<u>Cumulative Percent Dose</u>		
		Urine	Feces	Total
0.5	1	33.00	49.50	82.50
	2	35.07	52.16	87.50
	3	36.04	53.16	89.20
	4	36.54	53.36	89.90
	5	36.87	53.41	90.28
	6	37.00	53.45	90.45
	7	37.23	53.49	90.72
2.0	1	36.18	39.77	75.95
	2	41.41	52.49	93.90
	3	42.70	53.29	96.11
	4	43.20	53.41	96.63
	5	43.63	53.48	97.11
	6	43.85	53.54	97.39
	7	44.03	53.60	97.63
20.0	1	22.00	40.68	62.68
	2	28.02	63.95	91.97
	3	29.26	65.55	94.81
	4	29.69	65.72	95.41
	5	29.86	65.77	95.63
	6	29.96	65.81	95.77
	7	30.05	65.84	95.89
200.0	1	11.65	13.64	25.30
	2	19.14	47.45	66.59
	3	21.85	78.51	100.30
	4	22.21	81.05	103.26
	5	22.41	81.26	103.67
	6	22.50	81.34	103.84
	7	22.57	81.42	103.99

Table 3
 Percent Dose (as Total ¹⁴C) in Tissues and Excreta Nine Days
 After Each of Three Oral Dose Levels of TMCP

Percent Dose ($\bar{X} \pm \text{SEM}$, N=3)			
Tissue	2.0mg/kg	20.0mg/kg	200.0mg/kg
Brain	.000 \pm .000	.000 \pm .000	.000 \pm .000
Lung	.008 \pm .001	.001 \pm .000	.001 \pm .000
Liver	.131 \pm .018	.045 \pm .006	.028 \pm .001
Kidney	.002 \pm .000	.001 \pm .000	.002 \pm .002
Spleen	.001 \pm .000	.000 \pm .000	.002 \pm .002
Small Intestine	.003 \pm .000	.001 \pm .001	.003 \pm .002
Large Intestine	.002 \pm .001	.000 \pm .000	.000 \pm .000
Testes	.002 \pm .001	.002 \pm .000	.001 \pm .000
Adipose	.158 \pm .039	.058 \pm .005	.142 \pm .020
Muscle	.009 \pm .008	.011 \pm .009	.005 \pm .003
Skin	.029 \pm .007	.007 \pm .001	.002 \pm .001
Blood	.000 \pm .000	.003 \pm .002	.076 \pm .076
Plasma	.000 \pm .000	.003 \pm .000	.000 \pm .000
Tissue Total	0.35	0.13	0.26
Urine	44.03	30.05	22.57
Feces	53.60	65.84	81.42
Total	97.98	96.02	104.25

Table 4

Tissue/Blood Concentration Ratios Nine Days after
Each of Three Oral Doses of TMCP

Tissue	Concentration Ratio (\bar{x} + SEM, n=3)		
	2.0 mg/kg	20.0 mg/kg	200.0 mg/kg
Brain	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Lung	0.00 ± 0.00	5.68 ± 3.87	0.05 ± 0.05
Liver	0.00 ± 0.00	25.61 ± 20.05	0.10 ± 0.10
Kidney	0.00 ± 0.00	3.50 ± 2.90	0.09 ± 0.09
Spleen	0.00 ± 0.00	0.44 ± 0.44	0.30 ± 0.30
Small Intestine	0.00 ± 0.00	0.36 ± 0.29	0.00 ± 0.00
Large Intestine	0.00 ± 0.00	0.00 ± 0.00	0.00 ± 0.00
Testes	0.00 ± 0.00	4.90 ± 4.12	0.02 ± 0.02
Adipose	0.00 ± 0.00	8.15 ± 6.10	0.11 ± 0.11
Muscle	0.00 ± 0.00	1.11 ± 1.05	0.00 ± 0.00
Skin	0.00 ± 0.00	3.08 ± 2.36	0.00 ± 0.00
Blood Concentration (nmoles/gm)	0.00 ± 0.00	0.02 ± 0.02	4.65 ± 4.56

Table 5
 Cumulative Percent Dose (as total ¹⁴C) in Excreta after
 Intravenous Administration of 2.0 mg/kg TMCP

Percent Dose ($\bar{x} \pm \text{SEM}$, n=3)			
Time	Urine	Feces*	Total
30 min	5.03 \pm 2.00	34.54 \pm 1.37	39.57 \pm 3.34
1 hr	11.58 \pm 0.74	46.86 \pm 1.25	58.44 \pm 1.96
2 hr	16.91 \pm 3.08	48.33 \pm 8.32	65.24 \pm 5.85
4 hr	17.73 \pm 1.44	42.79 \pm 6.04	60.52 \pm 7.48
6 hr	20.88 \pm 2.28	38.56 \pm 4.80	59.44 \pm 5.90
8 hr	25.77 \pm 0.62	24.54 \pm 3.25	50.31 \pm 3.32
12 hr	23.70 \pm 0.64	44.92 \pm 2.48	68.62 \pm 2.58
24 hr	35.23 \pm 6.18	38.92 \pm 3.14	74.16 \pm 3.80
48 hr	55.88 \pm 3.36	42.86 \pm 0.94	98.74 \pm 4.09
72 hr	66.50 \pm 2.87	46.71 \pm 1.38	112.97 \pm 1.60

* Includes feces plus intestinal contents.

Table 6
 Biliary Excretion of Percent Dose (as Total ¹⁴C) After
 Intravenous Dose of 2.0mg/kg TMCP

Time (hr)	Percent Dose					Cumulative Percent Dose				
	1	2	3	x	SD	1	2	3	x	SD
0.5	6.61*	26.50	-	16.56	-	6.61	26.50	-	16.56	-
1.0	11.72	20.63	18.20	16.85	4.61	17.89	47.13	18.20	27.74	16.79
1.5	13.16	8.03	8.91	10.03	2.74	31.05	55.17	27.10	37.77	15.20
2.0	6.86	3.69	4.75	5.10	1.61	37.91	58.86	31.85	42.87	14.17
2.5	3.76	2.51	3.43	3.23	0.65	41.67	61.37	35.28	46.11	13.60
3.0	2.14	1.60	2.25	2.00	0.35	43.81	62.98	37.53	48.11	13.26
3.5	2.14	1.22	1.55	1.64	0.47	45.94	64.20	39.08	49.74	12.94
4.0	1.46	0.88	1.27	1.20	0.30	47.34	65.08	40.35	50.92	12.75
4.5	1.02	0.63	1.02	0.89	0.23	48.41	65.71	41.37	51.83	12.53
5.0	0.81	0.48	0.81	0.70	0.19	49.22	66.18	42.18	52.53	12.34
5.5	0.79	0.42	0.64	0.62	0.19	50.00	66.61	42.82	53.14	12.20
6.0	0.72	0.37	0.52	0.54	0.18	50.73	66.98	43.34	53.68	12.09
6.5	0.52	0.18	0.41	0.37	0.18	51.25	67.16	43.75	54.05	11.95

* Cannula slipped momentarily from the bile duct of this rat and was repositioned.
 Rat 3 - 0.5 hr included in 1.0 hr time point

Table 7
 Biliary Excretion of Percent Dose (as Total ¹⁴C) After
 Intravenous Administration of 20.0mg/kg TMCP

Time (hr)	Percent Dose					Cumulative Percent Dose				
	1	2	3	x	SD	1	2	3	x	SD
0.5	26.83	31.66	22.11	26.87	4.78	26.83	31.66	22.11	26.87	4.78
1.0	15.53	15.88	14.50	15.30	0.72	42.36	47.54	36.61	42.17	5.47
1.5	6.06	6.39	5.17	5.87	0.63	48.42	53.93	41.78	48.04	6.08
2.0	3.47	2.20	3.14	2.98	0.66	51.89	56.13	44.92	50.98	5.66
2.5	2.56	2.47	1.66	2.23	0.50	54.45	58.60	46.58	53.21	6.10
3.0	1.70	1.82	2.85	2.12	0.63	56.15	60.42	49.43	55.33	5.54
3.5	1.42	1.24	2.26	1.64	0.54	57.57	61.66	51.69	56.97	5.01
4.0	1.13	0.79	0.78	0.90	0.20	58.70	62.45	52.47	57.87	5.04
4.5	0.87	0.55	1.43	0.95	0.45	59.57	63.00	55.90	59.49	3.55
5.0	0.75	0.51	0.90	0.72	0.20	60.32	63.51	54.80	59.54	4.41
5.5	0.54	0.39	0.64	0.52	0.13	60.86	63.90	55.44	60.07	4.28
6.0	0.49	0.38	0.67	0.51	0.15	61.35	64.28	56.11	60.58	4.14

Table 8

Percent of Dose \pm SEM in Selected Tissues after Intravenous Administration of 2.0 mg/kg TMCP

Tissues	30 min	1 hr	2 hr	4 hr	6 hr	8 hr	12 hr	24 hr	48 hr	72 hr
Brain	0.178 \pm 0.043	.057 \pm 0.006	0.018 \pm 0.005	0.012 \pm 0.002	0.009 \pm 0.001	0.005 \pm 0.000	0.004 \pm 0.000	0.001 \pm 0.001	0.000 \pm 0.000	0.000 \pm 0.000
Lung	0.299 \pm 0.021	0.187 \pm 0.035	0.191 \pm 0.024	0.139 \pm 0.004	0.145 \pm 0.020	0.198 \pm 0.020	0.110 \pm 0.008	0.094 \pm 0.010	0.061 \pm 0.001	0.069 \pm 0.010
Liver	9.140 \pm 1.205	5.023 \pm 0.638	4.755 \pm 0.511	4.633 \pm 0.242	3.155 \pm 0.205	2.297 \pm 1.108	2.821 \pm 0.419	2.044 \pm 0.259	1.556 \pm 0.284	1.657 \pm 0.134
Kidney	1.092 \pm 0.067	0.673 \pm 0.008	0.401 \pm 0.055	0.324 \pm 0.007	0.278 \pm 0.016	0.193 \pm 0.005	0.146 \pm 0.011	0.127 \pm 0.004	0.089 \pm 0.004	0.057 \pm 0.001
Spleen	0.068 \pm 0.003	0.038 \pm 0.003	0.022 \pm 0.005	0.018 \pm 0.001	0.021 \pm 0.002	0.018 \pm 0.001	0.022 \pm 0.001	0.018 \pm 0.001	0.017 \pm 0.001	0.016 \pm 0.000
Small Intestine	6.468 \pm 0.374	8.887 \pm 0.371	5.340 \pm 1.446	1.059 \pm 0.209	0.813 \pm 0.092	0.965 \pm 0.249	0.384 \pm 0.089	0.468 \pm 0.184	0.117 \pm 0.027	0.065 \pm 0.006
Testes	0.354 \pm 0.006	0.293 \pm 0.020	0.247 \pm 0.033	0.245 \pm 0.027	0.215 \pm 0.026	0.214 \pm 0.018	0.207 \pm 0.004	0.161 \pm 0.004	0.130 \pm 0.017	0.114 \pm 0.012
Adipose	3.878 \pm 0.850	2.823 \pm 0.338	2.912 \pm 0.646	3.065 \pm 0.407	3.696 \pm 0.732	1.782 \pm 0.335	2.442 \pm 0.212	1.692 \pm 0.127	1.066 \pm 0.022	0.704 \pm 0.023
Muscle	12.611 \pm 2.126	5.180 \pm 0.991	3.751 \pm 0.904	2.007 \pm 0.567	2.939 \pm 0.434	1.419 \pm 0.260	1.093 \pm 0.313	0.442 \pm 0.073	0.485 \pm 0.243	0.139 \pm 0.071

Table 8 (continued)

Tissues	30 min	1 hr	2 hr	4 hr	6 hr	8 hr	12 hr	24 hr	48 hr	72 hr
Skin	5.673 <u>+0.430</u>	4.789 <u>+1.150</u>	3.669 <u>+0.479</u>	3.159 <u>+0.363</u>	3.112 <u>+0.748</u>	2.017 <u>+0.336</u>	2.073 <u>+0.101</u>	0.593 <u>+0.210</u>	0.378 <u>+0.120</u>	0.227 <u>+0.151</u>
Spinal Cord	0.054 <u>+0.013</u>	0.028 <u>+0.005</u>	0.009 <u>+0.002</u>	0.005 <u>+0.000</u>	0.003 <u>+0.001</u>	0.002 <u>+0.000</u>	0.006 <u>+0.002</u>	0.001 <u>+0.001</u>	0.001 <u>+0.001</u>	0.001 <u>+0.003</u>
Sciatic Nerve	0.015 <u>+0.004</u>	0.014 <u>+0.003</u>	0.009 <u>+0.001</u>	0.006 <u>+0.000</u>	0.006 <u>+0.002</u>	0.005 <u>+0.001</u>	0.003 <u>+0.001</u>	0.003 <u>+0.000</u>	0.001 <u>+0.000</u>	0.002 <u>+0.001</u>
Blood	5.450 <u>+0.259</u>	3.772 <u>+0.071</u>	2.655 <u>+0.172</u>	1.952 <u>+0.058</u>	1.691 <u>+0.041</u>	1.408 <u>+0.061</u>	0.897 <u>+0.080</u>	0.446 <u>+0.035</u>	0.297 <u>+0.015</u>	0.090 <u>+0.008</u>
Plasma	4.574 <u>+0.244</u>	3.119 <u>+0.120</u>	2.198 <u>+0.189</u>	1.627 <u>+0.002</u>	1.439 <u>+0.071</u>	1.265 <u>+0.043</u>	0.785 <u>+0.105</u>	0.395 <u>+0.034</u>	0.257 <u>+0.010</u>	0.076 <u>+0.004</u>

Table 9

Percent of Dose ($\bar{x} \pm \text{SEM}$) as Unchanged Parent (P), Metabolite (M), and Unextracted Fraction (U) in Selected Tissues after Intravenous Administration of 2.0 mg/kg TMCP

Time		30 min	1 hr	2 hr	4 hr	6 hr	8 hr	12 hr	24 hr	48hr	72 hr
<u>Tissue</u>											
Blood	(P)	0.02 ± 0.01	0.004 ± 0.002	0.02 ± 0.01	0.18 ± 0.01	0.03 ± 0.01	0.17 ± 0.14	0.01 ± 0.01	0.00 ± 0.00		
	(M)	3.75 ± 0.12	1.85 ± 0.51	1.47 ± 0.28	1.22 ± 0.05	0.93 ± 0.05	0.70 ± 0.19	0.53 ± 0.03	0.16 ± 0.02		
	(U)	1.76 ± 0.07	1.24 ± 0.02	1.16 ± 0.11	0.72 ± 0.03	0.73 ± 0.02	0.54 ± 0.03	0.36 ± 0.05	0.28 ± 0.02		
Liver	(P)	0.06 ± 0.01	0.02 ± 0.00	0.02 ± 0.00	0.02 ± 0.00	0.02 ± 0.00	0.01 ± 0.00	0.00 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	0.07 ± 0.07
	(M)	4.94 ± 0.35	2.95 ± 0.48	2.02 ± 0.06	1.56 ± 0.06	1.01 ± 0.02	0.70 ± 0.03	0.53 ± 0.04	0.47 ± 0.02	0.36 ± 0.08	0.42 ± 0.00
	(U)	4.14 ± 0.92	2.05 ± 0.38	2.78 ± 0.50	3.05 ± 0.25	2.12 ± 0.21	1.59 ± 0.09	2.29 ± 0.38	1.57 ± 0.24	1.18 ± 0.21	1.23 ± 0.13
Kidney	(P)	0.09 ± 0.01	0.09 ± 0.05	0.08 ± 0.04	0.03 ± 0.00	0.02 ± 0.00	0.02 ± 0.00				
	(M)	0.49 ± 0.07	0.30 ± 0.01	0.15 ± 0.02	0.12 ± 0.02	0.10 ± 0.01	0.07 ± 0.00				
	(U)	0.51 ± 0.04	0.28 ± 0.05	0.17 ± 0.03	0.19 ± 0.02	0.16 ± 0.01	0.10 ± 0.00				

Table 9 (continued)

Time		30 min	1 hr	2 hr	4 hr	6 hr	8 hr	12 hr	24 hr	48hr	72 hr
<u>Tissue</u>											
Muscle	(P)	6.44 <u>+1.03</u>	2.14 <u>+0.30</u>	1.44 <u>+0.61</u>	0.37*	0.54 <u>+0.08</u>	0.39 <u>+0.11</u>				
	(M)	2.08 <u>+0.28</u>	1.62 <u>+0.14</u>	1.39 <u>+0.55</u>	0.79	0.80 <u>+0.02</u>	0.65 <u>+0.05</u>				
	(U)	4.08 <u>+1.41</u>	1.42 <u>+0.91</u>	1.98 <u>+0.95</u>	1.11	1.60 <u>+0.47</u>	0.38 <u>+0.24</u>				
Adipose	(P)	2.90*	1.64 <u>+0.38</u>	2.01*	1.33 <u>+0.18</u>	2.66 <u>+0.60</u>	0.97 <u>+0.42</u>	1.20 <u>+0.19</u>	0.79 <u>+0.19</u>	0.13 <u>+0.01</u>	0.06 <u>+0.03</u>
	(M)	0.93	0.84 <u>+0.18</u>	0.76	0.42 <u>+0.18</u>	0.59 <u>+ 0.07</u>	0.42 <u>+0.13</u>	0.52 <u>+ 0.03</u>	0.51 <u>+0.01</u>	0.45 <u>+0.01</u>	0.32 <u>+0.04</u>
	(U)	0.64	0.35 <u>+0.27</u>	0.57	1.13 <u>+0.37</u>	0.45 <u>+0.11</u>	0.39 <u>+0.10</u>	0.72 <u>+0.20</u>	0.39 <u>+0.05</u>	0.48 <u>+0.04</u>	0.26 <u>+0.05</u>
Skin	(P)	1.91*	2.42 <u>+0.25</u>	3.13*	1.88 <u>+0.27</u>	1.20 <u>+0.24</u>	0.79 <u>+0.31</u>	0.96 <u>+0.16</u>			
	(M)	1.69	1.30 <u>+0.08</u>	0.89	0.66 <u>+0.04</u>	0.55 <u>+0.06</u>	0.59 <u>+0.07</u>	0.53 <u>+0.04</u>			
	(U)	1.83	1.06 <u>+0.89</u>	0.32	0.62 <u>+0.11</u>	1.35 <u>+0.64</u>	0.63 <u>+0.20</u>	0.59 <u>+0.13</u>			

Table 9 (continued)

Time		30 min	1 hr	2 hr	4 hr	6 hr	8 hr	12 hr	24 hr	48hr	72 hr
<u>Tissue</u>											
Spinal Cord	(P)	0.026*	0.014 <u>+0.004</u>	0.002 <u>+0.000</u>	0.000 <u>+0.000</u>						
	(M)	0.019	0.015 <u>+0.002</u>	0.006 <u>+0.000</u>	0.005 <u>+0.000</u>						
	(U)	0.020	0.001 <u>+0.001</u>	0.002 <u>+0.001</u>	0.000 <u>+0.000</u>						

* Only two samples available for this time point.

Table 10

Pharmacokinetic Parameters for
Percent Dose of TMCP as Total ^{14}C

Tissue	A	α	B	β	α t1/2	β t1/2	CORR.
	%	hr ⁻¹	%	hr ⁻¹	hr	hr	
Blood	5.25	1.155	1.86	0.042	0.60	16.40	0.955
Plasma	3.35	0.603	1.52	0.041	1.15	16.80	0.959
Liver	5.11	0.314	2.60	0.008	2.21	91.30	0.789
Kidney	0.792	0.430	0.199	0.017	1.61	40.10	0.973
Muscle	11.47	0.817	1.76	0.034	0.85	20.38	0.945
Adipose	0.644	0.071	2.923	0.020	9.76	34.65	0.988
Skin	2.93	0.153	2.04	0.033	4.53	21.00	0.848
Small Intestine	17.69	1.066	1.04	0.041	0.65	17.10	0.934
Testes	0.234	1.369	0.237	0.011	0.51	62.00	0.934
Lung	0.530	2.008	0.153	0.014	0.35	49.50	0.905
Spleen	0.154	2.310	0.020	0.003	0.300	195.00	0.998
Brain	0.472	2.293	0.017	0.109	0.302	6.36	0.986
Spinal Cord	0.103	1.410	0.003	0.019	0.491	36.09	0.999

Table 11

Pharmacokinetic Parameters for Percent Dose
as Parent TMCP in Selected Tissues

Tissue	A	α	t1/2	B	β	t1/2	CORR.
	%	hr ⁻¹	hr	%	hr ⁻¹	hr	
Blood	--	--	--	0.023	0.041	16.90	0.072
Liver	0.037	0.157	4.41	0.004	0.035	19.80	0.583
Kidney	--	--	--	0.104	0.261	2.66	0.945
Muscle	--	--	--	3.44	0.324	2.14	0.727
Adipose	2.24	0.059	11.75	2.41	0.054	12.83	0.949
Skin	--	--	--	3.05	0.122	5.68	0.716
Spinal Cord	--	--	--	0.060	1.61	0.430	0.997