

Supplementary material for:

Thionate versus Oxon: A Comparison of Stability, Uptake, and Cell Toxicity of ($^{14}\text{C}_3\text{O}$)₂-Labeled Methyl Parathion and Methyl Paraoxon with SH-SY5Y Cells.

*Sandip B. Bharate, John M. Prins, Kathleen M. George and Charles M. Thompson**

Table A. Total radioactivity counts inside cells after OP exposure (Preliminary uptake experiment)*

OP exposure time (h)	CPM [Mean \pm SEM]	
	^{14}C -MPS	^{14}C -MPO
0	1046 \pm 20	714 \pm 22
12	1743 \pm 19	3538 \pm 599
24	2104 \pm 66	7180 \pm 197
48	1944 \pm 108	7936 \pm 413
72	2031 \pm 148	5831 \pm 371
96	2314 \pm 132	4559 \pm 163

*Total counts (media + cells) for ^{14}C -MPS = 140,000 to 153,000 and for ^{14}C -MPO = 161,000 to 173,000 [2 ml of media containing 1 μM OP used for each well treatment].

Table B. Radioactivity counts for OP and their degradation products in cell cytosolic fractions*

Cells exposed to OP	OP or its degradation product in cytosol	CPM [Mean \pm SEM] / 10^6 cells [#]		
		24 h	48 h	72 h
^{14}C -MPS	^{14}C -MPS	478 \pm 13	690 \pm 73	545 \pm 61
	^{14}C -MPO	350 \pm 19	574 \pm 72	472 \pm 42
	^{14}C -DMTP	230 \pm 11	251 \pm 48	233 \pm 22
	Total counts in cytosol	1058 \pm 32	1516 \pm 187	1251 \pm 112
^{14}C -MPO	^{14}C -MPO	196 \pm 95	554 \pm 78	358 \pm 18
	^{14}C -DMP	1481 \pm 215	2052 \pm 119	1232 \pm 27
	Total counts in cytosol	1677 \pm 272	2606 \pm 150	1590 \pm 42

[#]Counts were normalized for 10^6 cells; *Total counts (media + cells) for ^{14}C -MPS = 1266600 to 1334400 and for ^{14}C -MPO = 1397300 to 1481700 [20 ml of media containing 1 μM OP used for each Petri-dish plate treatment].