

Distribution of Radioactivity 0.5 to 168 Hours Following Intratracheal Instillation Administration of 1 mg/kg [¹³C]Fullerenes-C60 in Male F344 Rats – Group B

Disposition in Selected Tissue and Excreta – Average C60 Concentration (µg/g)

Time (h) ^a	Blood Mean	Blood SD ^b	Intestine Mean	Intestine SD	Intestine Content Mean	Intestine Content SD	Lung Tissue Mean	Lung Tissue SD	Feces Mean	Feces SD	Urine Mean	Urine SD
0.5	BLQ ^c	–	BLQ	–	0.2	0.2	24	67	ND	ND	ND	ND
2	BLQ	–	BLQ	–	0.8	0.5	21	11	ND	ND	ND	ND
6	BLQ	–	BLQ	–	0.1	0.1	24	7	ND	ND	ND	ND
24	BLQ	–	BLQ	–	0.1	0.6	22	15	0.1	0.08	BLQ	–
48	ND ^d	ND	ND	ND	ND	ND	ND	ND	0.59	0.57	BLQ	–
72	ND	ND	ND	ND	ND	ND	ND	ND	0.17	0.13	BLQ	–
96	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.3	BLQ	–
120	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.1	BLQ	–
144	ND	ND	ND	ND	ND	ND	ND	ND	0.1	0.4	BLQ	–
168	BLQ	–	BLQ	–	0.2	0.09	21	8	0.20	0.27	BLQ	–

^ah = hour

^bSD = standard deviation

^cBLQ = below the limit of quantitation (1-5 ng/mL dependent on sample matrix)

^dND = not determined (no sample)

Concentrations of C60 were below measurable limits in the kidney, liver, brain, and spleen.

In the lung, 73 percent of the dose was recovered 168-hour post administration of 1 mg/kg dose.

6 animals/time point were dosed with 3 animals as controls.

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C60)_K04089_GroupB_IT_1_Rat_Male_168h_Excreta&Tissue_25m.docx
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