

**Distribution of Radioactivity 0.5 to 168 Hours Following Intratracheal Instillation Administration
of 5 mg/kg [¹³C]Fullerenes-C60 in Male F344 Rats – Group A**

Disposition in Selected Tissue and Excreta – 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	–	0.03	0.05	0.6	0.9	597	84	ND	ND	ND	ND
2	BLQ	–	0.1	0.1	2.3	3.2	513	182	ND	ND	ND	ND
6	BLQ	–	0.1	0.2	2.9	3.7	543	125	ND	ND	ND	ND
24	BLQ	–	BLQ	–	0.01	0.04	456	52	0.60	0.60	BLQ	–
48	ND ^d	ND	ND	ND	ND	ND	ND	ND	0.40	0.30	BLQ	–
72	ND	ND	ND	ND	ND	ND	ND	ND	0.06	0.05	BLQ	–
96	ND	ND	ND	ND	ND	ND	ND	ND	0.09	0.02	BLQ	–
120	ND	ND	ND	ND	ND	ND	ND	ND	0.2	0.03	BLQ	–
144	ND	ND	ND	ND	ND	ND	ND	ND	0.27	0.06	BLQ	–
168	BLQ	–	BLQ	–	0.2	0.09	435	104	0.23	0.06	BLQ	–

^ah = hour

^bSD = standard deviation

^cBLQ = below the limit of quantitation (1-5 nag/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, 90 percent of the dose was recovered 168-hour post administration of 5 mg/kg dose.

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

Filename: ADME_Nanoscale material (Fullerene
C60)_K04089_GroupA_IT_5_Rat_Male_168h_Excreta&TissueConc_25m.docx
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