

Study Number: C98004-01

Test Type: TOX

Route: Oral Gavage

Species/Strain: Rat/Harlan Sprague Dawley

Study Number:

Study Gender:

PWG Approval Date

PA48: Summary of Tissue Concentration

Test Compound: Hexachlorobenzene (HCB)

CAS Number: 607-91-0

C98004-01

Female

See web page for date of PWG Approval

Date Report Requested: 07/13/2020

Time Report Requested: 08:22:22

Lab: NTP

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Lab: NTP

		Female: Core			
Phase	Dose (mg/kg)	0	0.03	0.1	0.3
SD 93	Hexachlorobenzene Concentration in Blood (ng/mL)	1.88 ± 0.362 (10) **	144 ± 5.11 (9) **	451 ± 18.4 (10) **	1350 ± 68.2 (10) **
SD 93	Hexachlorobenzene Concentration in Adipose (ug/g)	0.627 ± 0.0761 (10) **	9.24 ± 0.450 (9) **	25.2 ± 1.36 (10) **	65.9 ± 2.93 (10) **
SD 93	Hexachlorobenzene Concentration in Liver (ng/g)	27.0 ± 1.74 (9) **	422 ± 38.0 (9) **	1120 ± 75.9 (10) **	4140 ± 225 (10) **
SD 93	Hexachlorobenzene Concentration in Lung (ng/g)	196 ± 56.5 (10) **	342 ± 53.5 (9)	1960 ± 487 (10) **	1830 ± 166 (10) **

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		Female: Core			
Phase	Dose (mg/kg)	1	3	10	25
SD 93	Hexachlorobenzene Concentration in Blood (ng/mL)	5050 ± 277 (10) **	15400 ± 620 (10) **	50400 ± 1840 (10) **	152000 ± 7070 (8) **
SD 93	Hexachlorobenzene Concentration in Adipose (ug/g)	251 ± 8.65 (10) **	766 ± 29.8 (10) **	2380 ± 98.8 (10) **	6260 ± 181 (10) **
SD 93	Hexachlorobenzene Concentration in Liver (ng/g)	11800 ± 486 (10) **	37700 ± 1400 (10) **	119000 ± 5420 (10) **	270000 ± 15700 (10) **
SD 93	Hexachlorobenzene Concentration in Lung (ng/g)	4640 ± 338 (10) **	22000 ± 2510 (10) **	73200 ± 12800 (10) **	150000 ± 15300 (10) **

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Female: Special Day 146

Phase	Dose (mg/kg)	0	0.03	25
SD 90	Hexachlorobenzene Concentration in Blood (ng/mL)	50.1 ± 5.12 (5) **	173 ± 16.3 (5) **	129000 ± 6200 (5) **
SD 104	Hexachlorobenzene Concentration in Blood (ng/mL)	49.5 ± 1.39 (5) **	176 ± 3.93 (5) **	126000 ± 3990 (5) **
SD 132	Hexachlorobenzene Concentration in Blood (ng/mL)	50.2 ± 3.47 (5) **	110 ± 2.71 (5) **	78200 ± 3850 (5) **
SD 146	Hexachlorobenzene Concentration in Blood (ng/mL)	43.9 ± 2.53 (5) **	87.2 ± 6.09 (5) **	62400 ± 2180 (5) **
SD 146	Hexachlorobenzene Concentration in Adipose (ug/g)	2.72 ± 0.277 (5) **	5.27 ± 0.126 (5) **	3040 ± 91.1 (5) **
SD 146	Hexachlorobenzene Concentration in Liver (ng/g)	118 ± 4.11 (5) **	193 ± 17.0 (5) **	109000 ± 8450 (5) **
SD 146	Hexachlorobenzene Concentration in Lung (ng/g)	63.9 ± 9.91 (5) **	90.0 ± 8.71 (5)	37500 ± 4630 (5) **

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Date Report Requested: 07/13/2020

Time Report Requested: 08:22:22

Lab: NTP

Female: Special Day 201

Phase	Dose (mg/kg)	0	0.03	25
SD 90	Hexachlorobenzene Concentration in Blood (ng/mL)	77.1 ± 6.13 (5) **	200 ± 7.90 (5) **	133000 ± 7500 (5) **
SD 118	Hexachlorobenzene Concentration in Blood (ng/mL)	64.7 ± 4.17 (5) **	140 ± 6.76 (5) **	94800 ± 1310 (5) **
SD 160	Hexachlorobenzene Concentration in Blood (ng/mL)	54.0 ± 1.32 (5) **	85.7 ± 3.96 (5) **	53700 ± 2310 (5) **
SD 174	Hexachlorobenzene Concentration in Blood (ng/mL)	41.5 ± 0.893 (5) **	76.6 ± 3.08 (5) **	50900 ± 1350 (5) **
SD 201	Hexachlorobenzene Concentration in Blood (ng/mL)	33.4 ± 3.25 (5) **	59.8 ± 1.87 (5) **	45700 ± 778 (5) **
SD 201	Hexachlorobenzene Concentration in Adipose (ug/g)	1.82 ± 0.103 (5) **	3.45 ± 0.295 (5) **	1690 ± 66.7 (5) **
SD 201	Hexachlorobenzene Concentration in Liver (ng/g)	55.7 ± 1.62 (5) **	81.0 ± 4.89 (5) **	60900 ± 3170 (5) **
SD 201	Hexachlorobenzene Concentration in Lung (ng/g)	50.6 ± 5.58 (5) **	82.3 ± 13.0 (5) *	32700 ± 2730 (5) **

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LEGEND

Data are displayed as mean \pm SEM (N) unless otherwise noted.

SD – Study Day

If over 20% of the animals in a group are above the limit of detection, then 1/2 the limit of detection value is substituted for values that are below the limit of detection.

When the control group did not have over 20% of its values above the limit of detection, no mean or standard error were calculated; no statistical analysis was done for the endpoint.

Statistical analysis performed by Jonckheere (trend) and Shirley or Dunn (pairwise) tests.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

* Statistically significant at $P \leq 0.05$

** Statistically significant at $P \leq 0.01$

One value for Hexachlorobenzene Liver Concentration for the Core females in the 0 mg/kg dose group was excluded as an outlier.

**** END OF REPORT ****