

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**C Number:**

Multiple

**Study Gender:**

Male

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>Terminal Body Wt. (g)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	243.8 ± 5.5 (6)	241.3 ± 5.4 (6)	242.6 ± 3.9 (6)	247.9 ± 6.0 (6)	247.9 ± 5.8 (6)	233.3 ± 5.7 (6)
decaBDE	250.7 ± 2.4 (6)	251.8 ± 3.7 (6)	256.0 ± 3.7 (6)	250.1 ± 6.0 (6)	246.9 ± 4.6 (6)	254.1 ± 6.1 (6)
HBCD	241.6 ± 2.9 (6)	243.1 ± 2.4 (6)	238.0 ± 4.0 (6)	244.0 ± 1.6 (6)	243.9 ± 6.2 (6)	245.1 ± 3.2 (6)
TBB	242.7 ± 9.6 (5)	248.8 ± 5.5 (6)	247.4 ± 5.4 (6)	248.1 ± 5.7 (6)	244.3 ± 3.9 (6)	248.3 ± 4.1 (6)
TBPH	235.9 ± 5.5 (6)	239.8 ± 4.2 (6)	238.6 ± 3.5 (6)	245.9 ± 2.5 (6)	240.4 ± 3.6 (6)	244.2 ± 5.3 (6)
TBBPA-DBPE	242.7 ± 7.0 (6)	238.7 ± 6.3 (6)	239.0 ± 3.0 (6)	231.7 ± 4.8 (6)	238.9 ± 6.6 (6)	247.8 ± 6.9 (6)
BTBPE	233.5 ± 3.1 (6)	233.7 ± 5.1 (6)	234.0 ± 4.0 (6)	231.1 ± 4.3 (6)	231.4 ± 5.6 (6)	231.2 ± 6.2 (6)
DBDPE	232.8 ± 5.3 (6)	228.7 ± 3.2 (6)	228.8 ± 2.7 (6)	230.1 ± 3.2 (6)	231.2 ± 3.6 (6)	228.5 ± 5.9 (6)
HCDCBO	234.1 ± 5.4 (6)	228.2 ± 4.1 (6)	226.0 ± 2.3 (6)	228.2 ± 4.3 (6)	235.9 ± 3.4 (6)	233.0 ± 3.5 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>R. Epididymis Absolute (g)</b>					
	<b>Treatment Groups (umol/kg)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	0.2683 ± 0.0165 (6)	0.2340 ± 0.0085 (6)	0.2812 ± 0.0104 (6)	0.2643 ± 0.0042 (6)	0.2728 ± 0.0135 (6)	0.2451 ± 0.0079 (6)
decaBDE	0.2628 ± 0.0092 (6)	0.2798 ± 0.0074 (6)	0.2817 ± 0.0136 (6)	0.2582 ± 0.0069 (6)	0.2685 ± 0.0032 (6)	0.2820 ± 0.0219 (6)
HBCD	0.2611 ± 0.0056 (5)	0.2688 ± 0.0131 (6)	0.2746 ± 0.0060 (6)	0.2507 ± 0.0164 (6)	0.2568 ± 0.0115 (6)	0.2674 ± 0.0070 (6)
TBB	0.2616 ± 0.0168 (5)	0.2548 ± 0.0124 (6)	0.2592 ± 0.0161 (6)	0.3005 ± 0.0194 (6)	0.2687 ± 0.0095 (6)	0.2548 ± 0.0091 (6)
TBPH	0.2740 ± 0.0068 (6)	0.2709 ± 0.0077 (6)	0.2582 ± 0.0086 (6)	0.2793 ± 0.0083 (6)	0.2639 ± 0.0123 (6)	0.2562 ± 0.0150 (6)
TBBPA-DBPE	0.2494 ± 0.0145 (6)	0.2445 ± 0.0102 (6)	0.2749 ± 0.0096 (6)	0.2577 ± 0.0073 (6)	0.2679 ± 0.0070 (6)	0.2598 ± 0.0112 (6)
BTBPE	0.2333 ± 0.0085 (6)	0.2410 ± 0.0083 (6)	0.2521 ± 0.0086 (6)	0.2614 ± 0.0095 (6)	0.2494 ± 0.0119 (6)	0.2551 ± 0.0119 (6)
DBDPE	0.2415 ± 0.0055 (6)	0.2413 ± 0.0054 (6)	0.2355 ± 0.0158 (6)	0.2339 ± 0.0097 (6)	0.2453 ± 0.0094 (6)	0.2374 ± 0.0128 (6)
HCDBCO	0.2447 ± 0.0092 (6)	0.2428 ± 0.0101 (6)	0.2369 ± 0.0141 (6)	0.2428 ± 0.0121 (6)	0.2380 ± 0.0038 (6)	0.2503 ± 0.0125 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>R. Epididymis Relative (mg/g)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	1.10 ± 0.06 (6)	0.97 ± 0.02 (6)	1.16 ± 0.03 (6)	1.07 ± 0.03 (6)	1.10 ± 0.05 (6)	1.06 ± 0.05 (6)
decaBDE	1.05 ± 0.03 (6)	1.11 ± 0.04 (6)	1.10 ± 0.06 (6)	1.03 ± 0.02 (6)	1.09 ± 0.03 (6)	1.10 ± 0.07 (6)
HBCD	1.08 ± 0.03 (5)	1.10 ± 0.05 (6)	1.16 ± 0.03 (6)	1.03 ± 0.07 (6)	1.05 ± 0.05 (6)	1.09 ± 0.02 (6)
TBB	1.08 ± 0.07 (5)	1.03 ± 0.05 (6)	1.05 ± 0.06 (6)	1.21 ± 0.07 (6)	1.10 ± 0.03 (6)	1.03 ± 0.04 (6)
TBPH	1.16 ± 0.04 (6)	1.13 ± 0.02 (6)	1.08 ± 0.03 (6)	1.14 ± 0.04 (6)	1.10 ± 0.07 (6)	1.06 ± 0.08 (6)
TBBPA-DBPE	1.03 ± 0.05 (6)	1.03 ± 0.05 (6)	1.15 ± 0.05 (6)	1.12 ± 0.04 (6)	1.13 ± 0.05 (6)	1.05 ± 0.03 (6)
BTBPE	1.00 ± 0.04 (6)	1.03 ± 0.04 (6)	1.08 ± 0.03 (6)	1.14 ± 0.06 (6)	1.08 ± 0.07 (6)	1.11 ± 0.07 (6)
DBDPE	1.04 ± 0.02 (6)	1.06 ± 0.02 (6)	1.03 ± 0.06 (6)	1.02 ± 0.05 (6)	1.06 ± 0.03 (6)	1.04 ± 0.06 (6)
HCDCBO	1.04 ± 0.03 (6)	1.07 ± 0.05 (6)	1.05 ± 0.06 (6)	1.06 ± 0.04 (6)	1.01 ± 0.02 (6)	1.07 ± 0.04 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

**L. Epididymis Absolute (g)**

**Treatment Groups (umol/kg)**

<b>Test Article</b>	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>
PBDE-47	0.2731 ± 0.0082 (6)	0.2309 ± 0.0106 (6) *	0.2697 ± 0.0061 (6)	0.2568 ± 0.0053 (6)	0.2711 ± 0.0158 (6)
decaBDE	0.2588 ± 0.0046 (5)	0.2832 ± 0.0066 (6)	0.2617 ± 0.0070 (6)	0.2602 ± 0.0077 (6)	0.2732 ± 0.0046 (6)
HBCD	0.2717 ± 0.0127 (6)	0.2575 ± 0.0125 (6)	0.2630 ± 0.0074 (6)	0.2449 ± 0.0075 (6)	0.2589 ± 0.0081 (6)
TBB	0.2581 ± 0.0155 (5)	0.2557 ± 0.0125 (6)	0.2571 ± 0.0152 (6)	0.2821 ± 0.0081 (6)	0.2658 ± 0.0079 (6)
TBPH	0.2650 ± 0.0069 (6)	0.2522 ± 0.0057 (6)	0.2556 ± 0.0101 (6)	0.2749 ± 0.0133 (6)	0.2609 ± 0.0163 (6)
TBBPA-DBPE	0.2610 ± 0.0143 (5)	0.2486 ± 0.0114 (6)	0.2637 ± 0.0086 (6)	0.2269 ± 0.0211 (6)	0.2443 ± 0.0111 (6)
BTBPE	0.2251 ± 0.0059 (6)	0.2481 ± 0.0103 (6)	0.2624 ± 0.0145 (6)	0.2513 ± 0.0093 (6)	0.2425 ± 0.0068 (6)
DBDPE	0.2343 ± 0.0065 (6)	0.2390 ± 0.0061 (6)	0.2318 ± 0.0132 (6)	0.2219 ± 0.0118 (6)	0.2540 ± 0.0094 (6)
HCDBCO	0.2322 ± 0.0085 (6)	0.2465 ± 0.0104 (6)	0.2297 ± 0.0138 (6)	0.2500 ± 0.0114 (6)	0.2522 ± 0.0043 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

**L. Epididymis Absolute (g)**

**Treatment Groups (umol/kg)**

<b>Test Article</b>	<b>1000</b>
PBDE-47	0.2470 ± 0.0042 (6)
decaBDE	0.2654 ± 0.0132 (6)
HBCD	0.2744 ± 0.0085 (6)
TBB	0.2484 ± 0.0114 (6)
TBPH	0.2438 ± 0.0065 (6)
TBBPA-DBPE	0.2632 ± 0.0065 (6)
BTBPE	0.2604 ± 0.0141 (6)
DBDPE	0.2544 ± 0.0280 (6)
HCDBCO	0.2486 ± 0.0122 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	L. Epididymis Relative (mg/g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	1.12 ± 0.02 (6)	0.96 ± 0.05 (6) *	1.11 ± 0.02 (6)	1.04 ± 0.01 (6)	1.09 ± 0.07 (6)	1.06 ± 0.04 (6)
decaBDE	1.04 ± 0.02 (5)	1.13 ± 0.02 (6)	1.02 ± 0.04 (6)	1.04 ± 0.03 (6)	1.11 ± 0.02 (6)	1.04 ± 0.03 (6)
HBCD	1.13 ± 0.06 (6)	1.06 ± 0.05 (6)	1.11 ± 0.03 (6)	1.00 ± 0.04 (6)	1.06 ± 0.04 (6)	1.12 ± 0.02 (6)
TBB	1.07 ± 0.06 (5)	1.03 ± 0.05 (6)	1.04 ± 0.05 (6)	1.14 ± 0.05 (6)	1.09 ± 0.03 (6)	1.00 ± 0.05 (6)
TBPH	1.12 ± 0.03 (6) *	1.05 ± 0.02 (6)	1.07 ± 0.03 (6)	1.12 ± 0.06 (6)	1.09 ± 0.08 (6)	1.00 ± 0.03 (6)
TBBPA-DBPE	1.05 ± 0.06 (5)	1.04 ± 0.05 (6)	1.10 ± 0.04 (6)	0.98 ± 0.09 (6)	1.03 ± 0.07 (6)	1.07 ± 0.04 (6)
BTBPE	0.97 ± 0.04 (6)	1.06 ± 0.04 (6)	1.12 ± 0.07 (6)	1.09 ± 0.06 (6)	1.05 ± 0.04 (6)	1.13 ± 0.06 (6)
DBDPE	1.01 ± 0.02 (6)	1.04 ± 0.01 (6)	1.01 ± 0.05 (6)	0.96 ± 0.05 (6)	1.10 ± 0.03 (6)	1.11 ± 0.11 (6)
HCDCBO	0.99 ± 0.02 (6)	1.08 ± 0.05 (6)	1.02 ± 0.06 (6)	1.09 ± 0.03 (6)	1.07 ± 0.03 (6)	1.07 ± 0.04 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	Heart Absolute (g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	0.95 ± 0.01 (5)	0.95 ± 0.03 (6)	0.96 ± 0.04 (6)	1.02 ± 0.05 (6)	0.96 ± 0.04 (6)	0.89 ± 0.03 (6)
decaBDE	1.03 ± 0.03 (6)	0.99 ± 0.03 (6)	1.00 ± 0.01 (6)	0.95 ± 0.02 (6)	1.00 ± 0.03 (6)	0.99 ± 0.03 (6)
HBCD	0.98 ± 0.02 (6)	0.99 ± 0.02 (6)	0.97 ± 0.03 (6)	0.98 ± 0.02 (6)	0.98 ± 0.02 (6)	0.99 ± 0.04 (6)
TBB	1.06 ± 0.07 (5) *	1.02 ± 0.04 (6)	0.98 ± 0.02 (6)	1.00 ± 0.04 (6)	0.95 ± 0.03 (6)	0.94 ± 0.03 (6)
TBPH	0.96 ± 0.04 (6)	0.98 ± 0.02 (6)	0.96 ± 0.03 (6)	1.01 ± 0.04 (6)	1.04 ± 0.04 (6)	0.97 ± 0.03 (6)
TBBPA-DBPE	0.98 ± 0.04 (6)	0.99 ± 0.06 (6)	0.94 ± 0.04 (6)	1.05 ± 0.02 (6)	1.03 ± 0.05 (6)	1.03 ± 0.03 (6)
BTBPE	0.98 ± 0.03 (6)	0.96 ± 0.03 (6)	0.99 ± 0.02 (6)	0.95 ± 0.02 (6)	0.91 ± 0.03 (6)	0.98 ± 0.04 (6)
DBDPE	0.95 ± 0.03 (6)	0.94 ± 0.04 (6)	0.95 ± 0.03 (6)	0.91 ± 0.04 (6)	0.95 ± 0.02 (6)	0.99 ± 0.03 (6)
HCDBCO	0.95 ± 0.02 (6)	0.94 ± 0.02 (6)	0.96 ± 0.01 (6)	0.97 ± 0.04 (6)	0.96 ± 0.02 (6)	0.93 ± 0.02 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>Heart Relative (mg/g)</b>					
	<b>Treatment Groups (umol/kg)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	3.95 ± 0.07 (5)	3.95 ± 0.08 (6)	3.96 ± 0.12 (6)	4.12 ± 0.11 (6)	3.85 ± 0.09 (6)	3.81 ± 0.07 (6)
decaBDE	4.12 ± 0.13 (6)	3.94 ± 0.10 (6)	3.91 ± 0.04 (6)	3.81 ± 0.10 (6)	4.05 ± 0.07 (6)	3.88 ± 0.09 (6)
HBCD	4.05 ± 0.09 (6)	4.06 ± 0.10 (6)	4.09 ± 0.11 (6)	4.03 ± 0.08 (6)	4.03 ± 0.08 (6)	4.05 ± 0.13 (6)
TBB	4.36 ± 0.13 (5) **	4.07 ± 0.12 (6)	3.95 ± 0.10 (6) *	4.04 ± 0.11 (6) *	3.87 ± 0.08 (6) **	3.78 ± 0.10 (6) **
TBPH	4.05 ± 0.13 (6)	4.09 ± 0.10 (6)	4.03 ± 0.12 (6)	4.10 ± 0.17 (6)	4.30 ± 0.15 (6)	3.96 ± 0.07 (6)
TBBPA-DBPE	4.03 ± 0.05 (6)	4.12 ± 0.13 (6)	3.93 ± 0.15 (6)	4.53 ± 0.05 (6) *	4.31 ± 0.14 (6)	4.17 ± 0.16 (6)
BTBPE	4.21 ± 0.07 (6)	4.10 ± 0.12 (6)	4.25 ± 0.10 (6)	4.12 ± 0.10 (6)	3.94 ± 0.06 (6)	4.24 ± 0.13 (6)
DBDPE	4.10 ± 0.09 (6)	4.12 ± 0.12 (6)	4.15 ± 0.11 (6)	3.96 ± 0.16 (6)	4.12 ± 0.07 (6)	4.33 ± 0.13 (6)
HCDBCO	4.04 ± 0.04 (6)	4.11 ± 0.07 (6)	4.25 ± 0.06 (6)	4.23 ± 0.13 (6)	4.06 ± 0.13 (6)	3.99 ± 0.11 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>R. Kidney Absolute (g)</b>					
	<b>Treatment Groups (umol/kg)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	0.86 ± 0.02 (6)	0.82 ± 0.02 (6)	0.83 ± 0.03 (6)	0.86 ± 0.03 (6)	0.86 ± 0.02 (6)	0.88 ± 0.04 (6)
decaBDE	0.91 ± 0.01 (6)	0.87 ± 0.01 (6)	0.89 ± 0.02 (6)	0.87 ± 0.04 (6)	0.87 ± 0.02 (6)	0.88 ± 0.01 (6)
HBCD	0.90 ± 0.03 (6)	0.83 ± 0.02 (6)	0.89 ± 0.02 (6)	0.85 ± 0.02 (6)	0.86 ± 0.03 (6)	0.85 ± 0.02 (6)
TBB	0.92 ± 0.07 (5)	0.90 ± 0.03 (6)	0.86 ± 0.02 (6)	0.89 ± 0.04 (6)	0.86 ± 0.02 (6)	0.84 ± 0.03 (6)
TBPH	0.85 ± 0.04 (6)	0.85 ± 0.02 (6)	0.85 ± 0.02 (6)	0.89 ± 0.02 (6)	0.85 ± 0.02 (6)	0.85 ± 0.02 (6)
TBBPA-DBPE	0.85 ± 0.02 (6)	0.85 ± 0.03 (6)	0.82 ± 0.02 (6)	0.86 ± 0.02 (6)	0.86 ± 0.02 (6)	0.89 ± 0.03 (6)
BTBPE	0.85 ± 0.03 (6)	0.82 ± 0.03 (6)	0.86 ± 0.04 (6)	0.81 ± 0.02 (6)	0.82 ± 0.02 (6)	0.82 ± 0.03 (6)
DBDPE	0.83 ± 0.02 (6)	0.79 ± 0.01 (6)	0.81 ± 0.02 (6)	0.79 ± 0.01 (6)	0.82 ± 0.01 (6)	0.82 ± 0.01 (6)
HCDCBO	0.81 ± 0.02 (6)	0.81 ± 0.02 (6)	0.84 ± 0.01 (6)	0.82 ± 0.02 (6)	0.82 ± 0.02 (6)	0.80 ± 0.02 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	R. Kidney Relative (mg/g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	3.53 ± 0.09 (6)	3.41 ± 0.06 (6)	3.40 ± 0.08 (6)	3.45 ± 0.08 (6)	3.49 ± 0.11 (6)	3.77 ± 0.15 (6)
decaBDE	3.62 ± 0.08 (6)	3.45 ± 0.09 (6)	3.47 ± 0.09 (6)	3.48 ± 0.10 (6)	3.52 ± 0.10 (6)	3.46 ± 0.06 (6)
HBCD	3.71 ± 0.16 (6)	3.42 ± 0.06 (6)	3.72 ± 0.09 (6)	3.48 ± 0.08 (6)	3.54 ± 0.07 (6)	3.46 ± 0.11 (6)
TBB	3.78 ± 0.14 (5) *	3.61 ± 0.08 (6)	3.46 ± 0.04 (6)	3.56 ± 0.12 (6)	3.50 ± 0.07 (6)	3.36 ± 0.07 (6) *
TBPH	3.61 ± 0.08 (6)	3.56 ± 0.12 (6)	3.56 ± 0.11 (6)	3.60 ± 0.07 (6)	3.54 ± 0.10 (6)	3.49 ± 0.07 (6)
TBBPA-DBPE	3.51 ± 0.06 (6)	3.57 ± 0.04 (6)	3.42 ± 0.03 (6)	3.71 ± 0.09 (6)	3.60 ± 0.15 (6)	3.61 ± 0.12 (6)
BTBPE	3.64 ± 0.07 (6)	3.49 ± 0.10 (6)	3.66 ± 0.13 (6)	3.52 ± 0.11 (6)	3.54 ± 0.08 (6)	3.54 ± 0.06 (6)
DBDPE	3.56 ± 0.05 (6)	3.45 ± 0.07 (6)	3.53 ± 0.08 (6)	3.45 ± 0.05 (6)	3.56 ± 0.04 (6)	3.62 ± 0.13 (6)
HCDBCO	3.45 ± 0.07 (6)	3.56 ± 0.06 (6)	3.73 ± 0.03 (6)	3.58 ± 0.08 (6)	3.47 ± 0.09 (6)	3.44 ± 0.10 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>L. Kidney Absolute (g)</b>					
	<b>Treatment Groups (umol/kg)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	0.83 ± 0.02 (6)	0.82 ± 0.02 (6)	0.83 ± 0.02 (6)	0.81 ± 0.02 (6)	0.87 ± 0.03 (6)	0.88 ± 0.03 (6)
decaBDE	0.89 ± 0.01 (6)	0.86 ± 0.01 (6)	0.86 ± 0.02 (6)	0.85 ± 0.03 (6)	0.88 ± 0.02 (6)	0.88 ± 0.02 (6)
HBCD	0.86 ± 0.02 (6)	0.84 ± 0.02 (6)	0.89 ± 0.02 (6)	0.85 ± 0.03 (6)	0.83 ± 0.03 (6)	0.83 ± 0.01 (6)
TBB	0.90 ± 0.06 (5)	0.89 ± 0.02 (6)	0.86 ± 0.03 (6)	0.88 ± 0.04 (6)	0.86 ± 0.03 (6)	0.85 ± 0.03 (6)
TBPH	0.83 ± 0.04 (6)	0.86 ± 0.02 (6)	0.83 ± 0.02 (6)	0.89 ± 0.02 (6)	0.83 ± 0.02 (6)	0.85 ± 0.02 (6)
TBBPA-DBPE	0.83 ± 0.03 (6)	0.86 ± 0.02 (6)	0.83 ± 0.02 (6)	0.84 ± 0.02 (6)	0.85 ± 0.02 (6)	0.88 ± 0.03 (6)
BTBPE	0.82 ± 0.02 (6)	0.84 ± 0.03 (6)	0.82 ± 0.04 (6)	0.81 ± 0.02 (6)	0.81 ± 0.03 (6)	0.81 ± 0.04 (6)
DBDPE	0.79 ± 0.03 (6)	0.79 ± 0.02 (6)	0.82 ± 0.03 (6)	0.76 ± 0.02 (6)	0.81 ± 0.02 (6)	0.82 ± 0.01 (6)
HCDCBO	0.78 ± 0.01 (5)	0.80 ± 0.01 (6)	0.81 ± 0.02 (6)	0.80 ± 0.02 (6)	0.81 ± 0.02 (6)	0.80 ± 0.03 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	L. Kidney Relative (mg/g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	3.42 ± 0.06 (6)	3.40 ± 0.06 (6)	3.40 ± 0.07 (6)	3.27 ± 0.04 (6)	3.49 ± 0.12 (6)	3.79 ± 0.10 (6) *
decaBDE	3.55 ± 0.09 (6)	3.41 ± 0.08 (6)	3.38 ± 0.09 (6)	3.38 ± 0.07 (6)	3.56 ± 0.10 (6)	3.45 ± 0.03 (6)
HBCD	3.58 ± 0.11 (6)	3.45 ± 0.05 (6)	3.72 ± 0.10 (6)	3.49 ± 0.14 (6)	3.39 ± 0.07 (6)	3.40 ± 0.05 (6)
TBB	3.70 ± 0.13 (5)	3.58 ± 0.07 (6)	3.46 ± 0.09 (6)	3.52 ± 0.11 (6)	3.51 ± 0.08 (6)	3.43 ± 0.09 (6)
TBPH	3.52 ± 0.11 (6)	3.58 ± 0.13 (6)	3.49 ± 0.08 (6)	3.63 ± 0.06 (6)	3.45 ± 0.07 (6)	3.49 ± 0.07 (6)
TBBPA-DBPE	3.40 ± 0.08 (6)	3.60 ± 0.05 (6)	3.48 ± 0.05 (6)	3.64 ± 0.10 (6)	3.55 ± 0.11 (6)	3.55 ± 0.10 (6)
BTBPE	3.51 ± 0.07 (6)	3.57 ± 0.10 (6)	3.49 ± 0.11 (6)	3.49 ± 0.08 (6)	3.50 ± 0.12 (6)	3.48 ± 0.09 (6)
DBDPE	3.41 ± 0.08 (6)	3.45 ± 0.07 (6)	3.56 ± 0.10 (6)	3.32 ± 0.11 (6)	3.50 ± 0.05 (6)	3.59 ± 0.09 (6)
HCDBCO	3.37 ± 0.08 (5)	3.50 ± 0.07 (6)	3.59 ± 0.08 (6)	3.51 ± 0.07 (6)	3.44 ± 0.09 (6)	3.44 ± 0.09 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	Liver Absolute (g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	10.15 ± 0.19 (6) **	10.09 ± 0.39 (6)	10.40 ± 0.33 (6)	10.80 ± 0.31 (6)	12.59 ± 0.25 (6) **	15.16 ± 0.80 (6) **
decaBDE	11.36 ± 0.35 (6)	11.36 ± 0.19 (6)	11.93 ± 0.33 (6)	12.02 ± 0.50 (6)	11.85 ± 0.37 (6)	12.08 ± 0.37 (6)
HBCD	10.78 ± 0.17 (6) **	10.72 ± 0.24 (6)	10.72 ± 0.33 (6)	10.83 ± 0.29 (6)	11.56 ± 0.40 (6)	13.07 ± 0.22 (6) **
TBB	10.85 ± 0.63 (5)	10.93 ± 0.44 (6)	10.90 ± 0.27 (6)	10.69 ± 0.39 (6)	10.77 ± 0.34 (6)	12.03 ± 0.45 (6)
TBPH	10.67 ± 0.29 (6)	10.89 ± 0.08 (6)	10.89 ± 0.26 (6)	11.03 ± 0.13 (6)	10.87 ± 0.35 (6)	10.83 ± 0.31 (6)
TBBPA-DBPE	10.49 ± 0.50 (6)	10.19 ± 0.41 (6)	10.28 ± 0.24 (6)	10.36 ± 0.21 (6)	10.82 ± 0.35 (6)	10.90 ± 0.29 (6)
BTBPE	10.31 ± 0.30 (6)	10.30 ± 0.42 (6)	10.54 ± 0.30 (6)	10.36 ± 0.16 (6)	10.31 ± 0.37 (6)	10.15 ± 0.35 (6)
DBDPE	10.10 ± 0.31 (6) *	9.71 ± 0.16 (6)	10.14 ± 0.27 (6)	10.00 ± 0.25 (6)	10.33 ± 0.20 (6)	10.71 ± 0.22 (6)
HCDBCO	10.29 ± 0.28 (6) **	9.93 ± 0.26 (6)	10.07 ± 0.18 (6)	10.11 ± 0.30 (6)	11.38 ± 0.30 (6) **	11.96 ± 0.15 (6) **

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	Liver Relative (mg/g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	41.70 ± 1.12 (6) **	41.74 ± 0.89 (6)	42.82 ± 0.79 (6)	43.55 ± 0.42 (6)	50.79 ± 0.53 (6) **	65.21 ± 3.84 (6) **
decaBDE	45.27 ± 1.10 (6) *	45.13 ± 0.75 (6)	46.62 ± 1.27 (6)	47.96 ± 1.08 (6)	47.96 ± 0.84 (6)	47.52 ± 0.45 (6)
HBCD	44.60 ± 0.53 (6) **	44.09 ± 0.83 (6)	45.04 ± 0.99 (6)	44.39 ± 1.15 (6)	47.36 ± 0.61 (6) *	53.36 ± 0.77 (6) **
TBB	44.61 ± 1.19 (5)	43.86 ± 0.91 (6)	44.08 ± 0.88 (6)	43.04 ± 0.68 (6)	44.08 ± 1.13 (6)	48.38 ± 1.25 (6)
TBPH	45.20 ± 0.38 (6)	45.50 ± 0.84 (6)	45.62 ± 0.55 (6)	44.86 ± 0.44 (6)	45.17 ± 0.97 (6)	44.34 ± 0.60 (6)
TBBPA-DBPE	43.12 ± 0.92 (6)	42.64 ± 0.81 (6)	42.99 ± 0.61 (6)	44.75 ± 0.60 (6)	45.33 ± 1.20 (6)	43.97 ± 0.33 (6)
BTBPE	44.14 ± 0.95 (6)	44.02 ± 1.12 (6)	45.00 ± 0.76 (6)	44.85 ± 0.64 (6)	44.55 ± 1.13 (6)	43.84 ± 0.54 (6)
DBDPE	43.38 ± 0.69 (6) **	42.53 ± 1.16 (6)	44.28 ± 0.73 (6)	43.41 ± 0.68 (6)	44.68 ± 0.61 (6)	46.97 ± 1.24 (6) **
HCDBCO	43.96 ± 0.74 (6) **	43.54 ± 1.00 (6)	44.56 ± 0.62 (6)	44.31 ± 0.97 (6)	48.24 ± 0.99 (6) **	51.37 ± 0.90 (6) **

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>Lung Absolute (g)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	2.61 ± 0.24 (6)	2.60 ± 0.18 (6)	2.29 ± 0.24 (6)	2.48 ± 0.15 (6)	2.50 ± 0.20 (6)	2.37 ± 0.15 (6)
decaBDE	3.04 ± 0.23 (6)	2.52 ± 0.20 (6)	3.07 ± 0.16 (6)	2.71 ± 0.22 (6)	2.77 ± 0.30 (6)	3.21 ± 0.15 (6)
HBCD	2.87 ± 0.10 (6)	2.84 ± 0.09 (6)	3.04 ± 0.30 (6)	2.96 ± 0.19 (6)	2.82 ± 0.23 (6)	2.94 ± 0.17 (6)
TBB	2.36 ± 0.43 (5)	2.42 ± 0.20 (6)	2.60 ± 0.29 (6)	2.93 ± 0.37 (6)	2.12 ± 0.21 (6)	2.17 ± 0.16 (6)
TBPH	2.93 ± 0.24 (6)	2.51 ± 0.10 (6)	2.69 ± 0.23 (6)	2.98 ± 0.23 (6)	2.67 ± 0.28 (6)	2.80 ± 0.14 (6)
TBBPA-DBPE	2.36 ± 0.21 (6) *	2.77 ± 0.22 (6)	2.69 ± 0.18 (6)	3.01 ± 0.20 (6)	2.81 ± 0.25 (6)	3.09 ± 0.13 (6)
BTBPE	2.44 ± 0.31 (6)	2.26 ± 0.20 (6)	2.49 ± 0.16 (6)	2.57 ± 0.31 (6)	2.66 ± 0.21 (6)	2.73 ± 0.16 (6)
DBDPE	2.33 ± 0.18 (6)	2.19 ± 0.21 (6)	2.34 ± 0.26 (6)	2.11 ± 0.20 (6)	2.41 ± 0.11 (6)	2.78 ± 0.21 (6)
HCDCBO	2.56 ± 0.13 (6)	2.83 ± 0.14 (6)	2.56 ± 0.19 (6)	2.68 ± 0.28 (6)	2.80 ± 0.18 (6)	2.51 ± 0.17 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>Lung Relative (mg/g)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	10.72 ± 0.97 (6)	10.83 ± 0.85 (6)	9.37 ± 0.86 (6)	10.02 ± 0.60 (6)	10.16 ± 1.01 (6)	10.19 ± 0.74 (6)
decaBDE	12.11 ± 0.91 (6)	9.99 ± 0.77 (6)	11.98 ± 0.60 (6)	10.90 ± 1.02 (6)	11.18 ± 1.13 (6)	12.68 ± 0.66 (6)
HBCD	11.87 ± 0.42 (6)	11.67 ± 0.41 (6)	12.70 ± 1.11 (6)	12.11 ± 0.75 (6)	11.55 ± 0.86 (6)	12.02 ± 0.74 (6)
TBB	9.59 ± 1.56 (5)	9.70 ± 0.78 (6)	10.50 ± 1.14 (6)	11.75 ± 1.29 (6)	8.63 ± 0.74 (6)	8.71 ± 0.57 (6)
TBPH	12.44 ± 0.97 (6)	10.52 ± 0.55 (6)	11.30 ± 1.00 (6)	12.13 ± 0.92 (6)	11.13 ± 1.21 (6)	11.49 ± 0.69 (6)
TBBPA-DBPE	9.62 ± 0.64 (6) *	11.55 ± 0.69 (6)	11.25 ± 0.75 (6)	12.95 ± 0.76 (6) *	11.70 ± 0.81 (6)	12.57 ± 0.77 (6) *
BTBPE	10.41 ± 1.25 (6) *	9.66 ± 0.72 (6)	10.64 ± 0.74 (6)	11.12 ± 1.32 (6)	11.48 ± 0.78 (6)	11.78 ± 0.55 (6)
DBDPE	10.02 ± 0.74 (6)	9.55 ± 0.88 (6)	10.20 ± 1.04 (6)	9.15 ± 0.81 (6)	10.45 ± 0.51 (6)	12.15 ± 0.82 (6)
HCDBCO	10.95 ± 0.54 (6)	12.44 ± 0.73 (6)	11.36 ± 0.91 (6)	11.69 ± 1.09 (6)	11.90 ± 0.86 (6)	10.83 ± 0.83 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	R. Testis Absolute (g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	1.538 ± 0.024 (6)	1.481 ± 0.072 (6)	1.545 ± 0.065 (6)	1.512 ± 0.034 (6)	1.583 ± 0.045 (6)	1.561 ± 0.054 (6)
decaBDE	1.504 ± 0.027 (5)	1.599 ± 0.042 (6)	1.588 ± 0.025 (6)	1.553 ± 0.027 (6)	1.552 ± 0.044 (6)	1.568 ± 0.044 (6)
HBCD	1.525 ± 0.050 (6)	1.543 ± 0.032 (6)	1.483 ± 0.017 (6)	1.500 ± 0.036 (6)	1.488 ± 0.039 (6)	1.487 ± 0.037 (6)
TBB	1.546 ± 0.051 (5)	1.536 ± 0.029 (6)	1.491 ± 0.041 (6)	1.532 ± 0.012 (6)	1.583 ± 0.019 (6)	1.539 ± 0.031 (6)
TBPH	1.564 ± 0.036 (6)	1.581 ± 0.039 (6)	1.517 ± 0.030 (6)	1.602 ± 0.029 (6)	1.553 ± 0.036 (6)	1.499 ± 0.039 (6)
TBBPA-DBPE	1.524 ± 0.031 (6)	1.506 ± 0.035 (6)	1.523 ± 0.034 (6)	1.530 ± 0.049 (6)	1.596 ± 0.032 (6)	1.507 ± 0.051 (6)
BTBPE	1.467 ± 0.035 (6)	1.484 ± 0.028 (6)	1.496 ± 0.042 (6)	1.485 ± 0.011 (6)	1.499 ± 0.036 (6)	1.491 ± 0.039 (6)
DBDPE	1.419 ± 0.034 (6)	1.405 ± 0.027 (6)	1.358 ± 0.036 (6)	1.427 ± 0.054 (6)	1.449 ± 0.039 (6)	1.482 ± 0.056 (6)
HCDBCO	1.453 ± 0.058 (6)	1.491 ± 0.026 (6)	1.470 ± 0.023 (5)	1.463 ± 0.051 (6)	1.460 ± 0.016 (6)	1.374 ± 0.066 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	R. Testis Relative (mg/g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	6.32 ± 0.17 (6)	6.13 ± 0.23 (6)	6.38 ± 0.30 (6)	6.11 ± 0.14 (6)	6.38 ± 0.06 (6)	6.70 ± 0.24 (6)
decaBDE	6.03 ± 0.13 (5)	6.36 ± 0.21 (6)	6.21 ± 0.14 (6)	6.22 ± 0.13 (6)	6.30 ± 0.20 (6)	6.18 ± 0.15 (6)
HBCD	6.31 ± 0.21 (6) *	6.34 ± 0.10 (6)	6.24 ± 0.14 (6)	6.15 ± 0.16 (6)	6.10 ± 0.07 (6)	6.08 ± 0.19 (6)
TBB	6.40 ± 0.25 (5)	6.18 ± 0.13 (6)	6.03 ± 0.14 (6)	6.19 ± 0.16 (6)	6.48 ± 0.07 (6)	6.20 ± 0.07 (6)
TBPH	6.64 ± 0.21 (6)	6.61 ± 0.23 (6)	6.36 ± 0.14 (6)	6.52 ± 0.15 (6)	6.46 ± 0.10 (6)	6.16 ± 0.22 (6)
TBBPA-DBPE	6.31 ± 0.22 (6)	6.33 ± 0.22 (6)	6.39 ± 0.21 (6)	6.61 ± 0.19 (6)	6.69 ± 0.16 (6)	6.08 ± 0.08 (6)
BTBPE	6.29 ± 0.17 (6)	6.36 ± 0.15 (6)	6.39 ± 0.14 (6)	6.44 ± 0.14 (6)	6.49 ± 0.17 (6)	6.47 ± 0.24 (6)
DBDPE	6.10 ± 0.13 (6) *	6.14 ± 0.10 (6)	5.94 ± 0.16 (6)	6.21 ± 0.26 (6)	6.26 ± 0.10 (6)	6.52 ± 0.33 (6)
HCDCBO	6.20 ± 0.16 (6)	6.54 ± 0.14 (6)	6.47 ± 0.15 (5)	6.41 ± 0.18 (6)	6.20 ± 0.10 (6)	5.89 ± 0.22 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	L. Testis Absolute (g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	1.520 ± 0.028 (6)	1.479 ± 0.066 (6)	1.568 ± 0.052 (6)	1.509 ± 0.028 (6)	1.609 ± 0.042 (6)	1.589 ± 0.044 (6)
decaBDE	1.501 ± 0.038 (5)	1.587 ± 0.028 (6)	1.617 ± 0.023 (6)	1.529 ± 0.030 (6)	1.604 ± 0.036 (6)	1.578 ± 0.035 (6)
HBCD	1.507 ± 0.047 (6)	1.542 ± 0.021 (6)	1.504 ± 0.023 (6)	1.507 ± 0.037 (6)	1.514 ± 0.042 (6)	1.499 ± 0.033 (6)
TBB	1.548 ± 0.056 (5)	1.535 ± 0.031 (6)	1.486 ± 0.040 (6)	1.560 ± 0.021 (6)	1.584 ± 0.031 (6)	1.499 ± 0.024 (6)
TBPH	1.558 ± 0.036 (6)	1.513 ± 0.031 (6)	1.510 ± 0.029 (6)	1.600 ± 0.027 (6)	1.564 ± 0.030 (6)	1.498 ± 0.039 (6)
TBBPA-DBPE	1.546 ± 0.036 (6)	1.516 ± 0.029 (6)	1.542 ± 0.019 (6)	1.508 ± 0.032 (5)	1.605 ± 0.033 (6)	1.498 ± 0.049 (6)
BTBPE	1.440 ± 0.040 (6)	1.469 ± 0.040 (6)	1.514 ± 0.042 (6)	1.479 ± 0.020 (6)	1.490 ± 0.049 (6)	1.493 ± 0.040 (6)
DBDPE	1.426 ± 0.032 (6)	1.399 ± 0.041 (6)	1.404 ± 0.028 (6)	1.377 ± 0.073 (6)	1.425 ± 0.050 (6)	1.279 ± 0.139 (6)
HCDBCO	1.459 ± 0.059 (6)	1.476 ± 0.027 (6)	1.428 ± 0.074 (6)	1.472 ± 0.047 (6)	1.421 ± 0.025 (6)	1.365 ± 0.081 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>L. Testis Relative (mg/g)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	6.25 ± 0.19 (6) *	6.12 ± 0.21 (6)	6.47 ± 0.22 (6)	6.09 ± 0.10 (6)	6.49 ± 0.04 (6)	6.82 ± 0.18 (6)
decaBDE	6.01 ± 0.17 (5)	6.31 ± 0.17 (6)	6.32 ± 0.07 (6)	6.12 ± 0.13 (6)	6.50 ± 0.16 (6)	6.22 ± 0.16 (6)
HBCD	6.23 ± 0.16 (6)	6.34 ± 0.10 (6)	6.33 ± 0.15 (6)	6.18 ± 0.16 (6)	6.21 ± 0.12 (6)	6.12 ± 0.17 (6)
TBB	6.40 ± 0.23 (5)	6.18 ± 0.13 (6)	6.01 ± 0.13 (6)	6.31 ± 0.19 (6)	6.48 ± 0.08 (6)	6.04 ± 0.10 (6)
TBPH	6.62 ± 0.22 (6)	6.32 ± 0.20 (6)	6.33 ± 0.12 (6)	6.52 ± 0.16 (6)	6.51 ± 0.10 (6)	6.15 ± 0.20 (6)
TBBPA-DBPE	6.39 ± 0.19 (6)	6.37 ± 0.21 (6)	6.46 ± 0.14 (6)	6.52 ± 0.16 (5)	6.73 ± 0.17 (6)	6.04 ± 0.08 (6)
BTBPE	6.17 ± 0.19 (6)	6.30 ± 0.19 (6)	6.47 ± 0.11 (6)	6.41 ± 0.13 (6)	6.44 ± 0.18 (6)	6.48 ± 0.26 (6)
DBDPE	6.13 ± 0.09 (6)	6.12 ± 0.17 (6)	6.14 ± 0.11 (6)	5.98 ± 0.29 (6)	6.16 ± 0.16 (6)	5.67 ± 0.70 (6)
HCDCBO	6.23 ± 0.16 (6)	6.47 ± 0.08 (6)	6.31 ± 0.30 (6)	6.45 ± 0.14 (6)	6.03 ± 0.14 (6)	5.84 ± 0.30 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

<b>Test Article</b>	<b>Thymus Absolute (g)</b>					
	<b>Treatment Groups (umol/kg)</b>					
	<b>0</b>	<b>0.1</b>	<b>1</b>	<b>10</b>	<b>100</b>	<b>1000</b>
PBDE-47	0.623 ± 0.044 (6) **	0.593 ± 0.030 (6)	0.593 ± 0.023 (6)	0.605 ± 0.034 (6)	0.521 ± 0.010 (5) *	0.513 ± 0.029 (6) *
decaBDE	0.636 ± 0.020 (6)	0.554 ± 0.019 (6)	0.556 ± 0.019 (6)	0.582 ± 0.044 (6)	0.589 ± 0.061 (6)	0.537 ± 0.016 (6)
HBCD	0.614 ± 0.042 (6)	0.544 ± 0.007 (5)	0.631 ± 0.024 (6)	0.639 ± 0.035 (6)	0.588 ± 0.039 (6)	0.515 ± 0.019 (6)
TBB	0.586 ± 0.071 (5)	0.596 ± 0.032 (6)	0.595 ± 0.041 (6)	0.615 ± 0.037 (6)	0.576 ± 0.027 (6)	0.523 ± 0.024 (6)
TBPH	0.557 ± 0.035 (6)	0.554 ± 0.034 (6)	0.589 ± 0.032 (6)	0.574 ± 0.048 (6)	0.603 ± 0.033 (6)	0.584 ± 0.034 (6)
TBBPA-DBPE	0.554 ± 0.034 (6)	0.548 ± 0.007 (5)	0.560 ± 0.033 (6)	0.615 ± 0.051 (6)	0.579 ± 0.030 (6)	0.590 ± 0.022 (6)
BTBPE	0.582 ± 0.040 (6)	0.587 ± 0.033 (6)	0.582 ± 0.040 (6)	0.577 ± 0.020 (6)	0.587 ± 0.033 (6)	0.569 ± 0.017 (6)
DBDPE	0.615 ± 0.031 (6)	0.564 ± 0.032 (6)	0.631 ± 0.031 (6)	0.618 ± 0.018 (6)	0.594 ± 0.024 (6)	0.605 ± 0.022 (6)
HCDBCO	0.590 ± 0.016 (6)	0.612 ± 0.046 (6)	0.596 ± 0.037 (6)	0.562 ± 0.007 (6)	0.674 ± 0.024 (6)	0.588 ± 0.009 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

Test Article	Thymus Relative (mg/g)					
	Treatment Groups (umol/kg)					
	0	0.1	1	10	100	1000
PBDE-47	2.57 ± 0.21 (6) *	2.46 ± 0.13 (6)	2.44 ± 0.08 (6)	2.44 ± 0.13 (6)	2.13 ± 0.06 (5)	2.20 ± 0.13 (6)
decaBDE	2.54 ± 0.10 (6)	2.20 ± 0.08 (6)	2.18 ± 0.09 (6)	2.32 ± 0.16 (6)	2.38 ± 0.24 (6)	2.12 ± 0.06 (6)
HBCD	2.54 ± 0.17 (6)	2.24 ± 0.03 (5)	2.65 ± 0.09 (6)	2.62 ± 0.14 (6)	2.40 ± 0.13 (6)	2.10 ± 0.07 (6) *
TBB	2.40 ± 0.24 (5)	2.40 ± 0.14 (6)	2.41 ± 0.16 (6)	2.47 ± 0.12 (6)	2.36 ± 0.10 (6)	2.10 ± 0.08 (6)
TBPH	2.36 ± 0.12 (6)	2.31 ± 0.12 (6)	2.47 ± 0.16 (6)	2.33 ± 0.20 (6)	2.51 ± 0.14 (6)	2.39 ± 0.13 (6)
TBBPA-DBPE	2.27 ± 0.09 (6)	2.33 ± 0.06 (5)	2.34 ± 0.12 (6)	2.65 ± 0.20 (6)	2.42 ± 0.08 (6)	2.39 ± 0.11 (6)
BTBPE	2.49 ± 0.16 (6)	2.51 ± 0.10 (6)	2.48 ± 0.14 (6)	2.50 ± 0.06 (6)	2.53 ± 0.11 (6)	2.46 ± 0.08 (6)
DBDPE	2.64 ± 0.11 (6)	2.47 ± 0.15 (6)	2.76 ± 0.13 (6)	2.69 ± 0.08 (6)	2.57 ± 0.11 (6)	2.65 ± 0.07 (6)
HCDBCO	2.53 ± 0.09 (6)	2.68 ± 0.20 (6)	2.64 ± 0.15 (6)	2.47 ± 0.06 (6)	2.86 ± 0.09 (6)	2.53 ± 0.04 (6)

**Experiment Number:** Multiple

**Test Type:** TOX

**Route:** Oral Gavage

**Species/Strain:** Rat/Harlan Sprague Dawley

**PA06Y: Organ Weight Summary**

**Test Compound:** Flame Retardants

**CAS Number:** N/A

**Date Report Requested:** 04/17/2019

**Time Report Requested:** 08:52:19

**Lab:** NTP

## LEGEND

---

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

Relative organ weights (organ-weight-to-body-weight ratios) are given as mg organ weight/g body weight

Statistical analysis performed by Jonchkeere (trend) and William or Dunnett (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 <= 0.05

\*\* Statistically significant at P <= 0.01

Legacy Flame Retardants: PBDE-47 = 2,2',4,4'-Tetrabromodiphenyl ether; decaBDE = Decabromodiphenyl ether; HBCD = 1,3,5,7,9,11-Hexabromocyclododecane

Emerging Flame Retardants: TBB = 2-Ethylhexyl-2,3,4,5-tetrabromobenzoate; TBPH = Bis(2-ethylhexyl) tetrabromophthalate; TBBPA-DBPE = Tetrabromobisphenol A-bis(2,3 dibromopropyl ether); BTBPE = 1,2-Bis(2,4,6-tribromophenoxy)ethane; DBDPE = 1,2-Bis(pentabromophenyl)ethane; HCDBCO = Hexachlorocyclopentadienyl-dibromocyclooctane

PBDE-47 - One value for Heart weight in the 0 umol/kg group and one value for Thymus weight in the 100 umol/kg group were excluded because they were outliers.

decaBDE: One value for L. Epididymis weight in the 0 mg/kg group, one value for R. Testis weight in the 0 mg/kg group, and one value for L. Testis weight in the 0 mg/kg group were excluded because they were outliers.

HBCD: One value for R. Epididymis weight in the 0 umol/kg group and one value for Thymus weight in the 0.1 umol/kg group were excluded because they were outliers.

TBBPA-DBPE: One value for L. Epididymis weight in the 0 umol/kg group; one value for Thymus weight in the 0.1 umol/kg group; and one value for L. Testis weight in the 10 umol/kg group were excluded because they were outliers.

HCDBCO: One value for L. Kidney weight in the 0 umol/kg group and one value for R. Testis weight in the 1 umol/kg group were excluded because they were outliers.

\*\* END OF REPORT \*\*