TABLE XXIX

# IBT #J7300 Toxicity Reproduction and Residue Study of Aroclor in White Leghorn Chickens

## ppm PCB in Chicken Tissues (Wet Weight Basis)

| | | Residue Sacrifice | | | | | | 30 Day Chick Sacrifice | | | 1st wk | 2nd wk | 3rd wk | 4th wk | 1st wk | 2nd wk | 3rd wk | 4th wk | 1st wk | 2nd wk | 3rd wk | 4th wk | Final Sacrifice | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 ppm | | 10 ppm | | 100 ppm | | 1 ppm | 10 ppm | 100 ppm | 1 ppm | | | | 10 ppm | | | | 100 ppm | | | | 1 ppm | | 10 ppm | | 100 ppm | |
| | | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ | ♂♀ | ♂♀ | ♂♀ | 30 Day Recovery Period | | | | | | | | | | | | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ |
| Aroclor 1242 | Muscle | - | 0.06 | | | | 2 | 0.07 | 0.05 | | | | | | | | | | | | | | | 0.05 | | 0.1 | | 5 |
| | Liver | | | | 2 | | | 0.4 | 0.2 | | | | | | | | | | | | | | | 0.7 | | 2 | | 45 |
| | Fat | 26 | 17 | | | 1430 | 1231 | | | | | | | | | | | | | | | | | 4 | | | | 8 |
| | Eggs | | | 5 | | 38 | | | | | | | | | 3 | 0.6 | 0.5 | | 26 | 30 | 19 | 24 | | | | | | |
| Aroclor 1254 | Muscle | - | | 0.9 | 0.7 | | | 0.02 | | | | | | | | | | | | | | | | | | 0.1 | | |
| | Liver | | 0.8 | | | | 50 | 0.09 | | | | | | | | | | | | | | | | 0.9 | | | | 27 |
| | Fat | | | 561 | 189 | | | | | | | | | | | | | | | | | | | | | 73 | | |
| | Eggs | 0.7 | | | | 132 | | | | | | 2 | 0.5 | 0.4 | | | | | | 68 | 75 | 36 | | | | | | |
| Aroclor 1260 | Muscle | | 0.2 | | | | 11 | 0.06 | 0.8 | | | | | | | | | | | | | | | 0.04 | | | | 2 |
| | Liver | | | | 6 | | | 0.09 | 0.2 | | | | | | | | | | | | | | | | | 13 | | |
| | Fat | 153 | 15 | | | 6295 | 1159 | | | | | | | | | | | | | | | | | 10 | | | | 1010 |
| | Eggs | 1 | | 13 | | | | | | | 1 | 0.7 | | | 13 | 8 | | | | | | | | | | | | |

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**TABLE XXX**

IBT #J7300 Toxicity, Reproduction and Residue Study of Aroclor in White Leghorn Chickens

ppm PCB in Chicken Tissues (Lipid Weight Basis)

| | | Residue Sacrifice | | | | | | 30 Day Chick Sacrifice | | | 1st wk | 2nd wk | 3rd wk | 4th wk | 1st wk | 2nd wk | 3rd wk | 4th wk | 1st wk | 2nd wk | 3rd wk | 4th wk | Final Sacrifice | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 ppm | | 10 ppm | | 100 ppm | | 1 ppm | 10 ppm | 100 ppm | 1 ppm | | | | 10 ppm | | | | 100 ppm | | | | 1 ppm | | 10 ppm | | 100 ppm | |
| | | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ | ♂♀ | ♂♀ | ♂♀ | 30 Day Recovery Period | | | | | | | | | | | | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ |
| Aroclor 1242 | Muscle | - | 13 | | | | 901 | 9 | 12 | | | | | | | | | | | | | | | 8 | | 30 | | 639 |
| | Liver | | | | 52 | | | 14 | 12 | | | | | | | | | | | | | | | 10 | | 28 | | 158 |
| | Fat | 30 | 22 | | | 2460 | 1310 | | | | | | | | | | | | | | | | | 4 | | | | 9 |
| | Eggs | | | | 37 | | 472 | | | | | | | | 33 | 5 | 5 | | 383 | 361 | 249 | 368 | | | | | | |
| Aroclor 1254 | Muscle | - | | 517 | 240 | | | 2 | | | | | | | | | | | | | | | | | | 61 | | |
| | Liver | | 18 | | | | 1475 | 4 | | | | | | | | | | | | | | | | 7 | | | | 1529 |
| | Fat | | | 892 | 197 | | | | | | | | | | | | | | | | | | | | | 73 | | |
| | Eggs | 10 | | | | 1410 | | | | | | 14 | 6 | 5 | | | | | | 1324 | 626 | 632 | | | | | | |
| Aroclor 1260 | Muscle | | 140 | | | | 6020 | 5 | 125 | | | | | | | | | | | | | | | 13 | | | | 827 |
| | Liver | | | | 86 | | | 6 | 6 | | | | | | | | | | | | | | | | | 56 | | |
| | Fat | 183 | 16 | | | 7580 | 1309 | | | | | | | | | | | | | | | | | 11 | | | | 1054 |
| | Eggs | 12 | | 146 | | | | | | | 13 | 7 | | | 135 | 71 | | | | | | | | | | | | |

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**TABLE XXXI**

# IBT #17300 · Toxicity, Reproduction and Residue Study of Aroclor in White Leghorn Chickens

## Predicted ppm PCB in Chicken Tissues (Lipid Weight Basis)

| | | Residue Sacrifice | | | | | | 30 Day Chick Sacrifice | | | 1st wk | 2nd wk | 3rd wk | 4th wk | 1st wk | 2nd wk | 3rd wk | 4th wk | 1st wk | 2nd wk | 3rd wk | 4th wk | Final Sacrifice | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 ppm | | 10 ppm | | 100 ppm | | 1 ppm | 10 ppm | 100 ppm | 1 ppm | | | | 10 ppm | | | | 100 ppm | | | | 1 ppm | | 10 ppm | | 100 ppm | |
| | | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ | ♂ & ♀ | ♂ & ♀ | ♂ & ♀ | 30 Day Recovery Period | | | | | | | | | | | | ♂ | ♀ | ♂ | ♀ | ♂ | ♀ |
| Aroclor 1242 | Muscle | 20 | 12 | 196 | 119 | 1899 | 1152 | | | | | | | | | | | | | | | | 10 | 6 | 92 | 56 | 893 | 541 |
| | Liver | 12 | 7 | 114 | 69 | 1104 | 669 | | | | | | | | | | | | | | | | 12 | 7 | 104 | 63 | 1013 | 614 |
| | Fat | 20 | 12 | 196 | 119 | 1899 | 1152 | | | | | | | | | | | | | | | | 10 | 6 | 92 | 56 | 893 | 541 |
| | Eggs | 3 | | 40 | | 498 | | | | | 2 | 0.9 | 0.6 | 0.4 | 25 | 16 | 10 | 7 | 424 | 362 | 308 | 263 | | | | | | |
| Aroclor 1254 | Muscle | 68 | 22 | 657 | 213 | 6388 | 2064 | | | | | | | | | | | | | | | | 26 | 8 | 249 | 81 | 2409 | 782 |
| | Liver | 34 | 11 | 326 | 106 | 3163 | 1027 | | | | | | | | | | | | | | | | 25 | 8 | 243 | 79 | 2332 | 757 |
| | Fat | 68 | 22 | 657 | 213 | 6388 | 2064 | | | | | | | | | | | | | | | | 26 | 8 | 249 | 81 | 2409 | 782 |
| | Eggs | 7 | | 92 | | 1141 | | | | | 6 | 5 | 4 | 3 | 80 | 66 | 54 | 44 | 1007 | 881 | 775 | 681 | | | | | | |
| Aroclor 1260 | Muscle | 124 | 29 | 1196 | 281 | 11643 | 2762 | | | | | | | | | | | | | | | | 42 | 10 | 379 | 90 | 3947 | 938 |
| | Liver | 57 | 24 | 552 | 131 | 5364 | 1275 | | | | | | | | | | | | | | | | 42 | 10 | 366 | 87 | 3557 | 845 |
| | Fat | 124 | 29 | 1196 | 284 | 11643 | 2762 | | | | | | | | | | | | | | | | 42 | 10 | 379 | 90 | 3947 | 938 |
| | Eggs | 11 | | 140 | | 1728 | | | | | 12 | 13 | 14 | 15 | 137 | 135 | 133 | 131 | 1543 | 1326 | 1231 | 1099 | | | | | | |

Chicken Regression Equation: log ppm PCB = $-0.5311 + 0.9858$ (log ppm fed) $+ 0.7344$ (if female) $+ 0.0438$ (% $Cl_2$) $+ 0.2908$ (if rec. liver) $- 0.0056$ (% $Cl_2$) if liver $- 0.0078$ (% $Cl_2$) if rec. $- 0.0226$ (% $Cl_2$) if female

Egg Regression Equation: log ppm PCB = $-0.7478 - 1.1794$ (rec. time) $+ 1.0920$ (log ppm fed) $+ 0.0300$ (% $Cl_2$) $+ 0.5316$ (rec. time x log ppm fed) $+ 0.0202$ (rec. time x % $Cl_2$) $- 0.0096$ (rec. time x log ppm fed x % $Cl_2$)

Chicken regression Equation — insufficient data