Experiment Number: S0361
Route: Gavage, IV
Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary
Test Compound: Pentachloroanisole
CAS Number: 1825-21-4

Date Report Requested: 12/29/2016
Time Report Requested: 14:38:54
Lab: NIEHS_Midwest Research Institute

Male

	Treatment Groups (mg/kg)					
	10 [a, #]	**10 [b, *]**	**20 [a, #]**	**20 [b, *]**	**40 [a, #]**	**40 [b, *]**
	Plasma					
C_{max} (ug/mL)	0.06 ± 0.007	28.8 ± 0.74	0.22 ± 0.17	40.3 ± 3.4	0.44 ± 0.03	103 ± 7.6
$AUC_{0\text{-}t}$ (ug/mL/hr)	0.41 ± 0.04	560 ± 19	1.19 ± 0.06	984 ± 66	4.62 ± 0.37	1752 ± 111
F (percent)	33 ± 7		48 ± 9		95 ± 20	

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Male

	Treatment Groups (mg/kg)	
	10 IV [c, *]	**10 IV [c, #]**
	Plasma	
C_{max} (ug/mL)	26.85 ± 0.851	
AUC_{0-t} (ug/mL/hr)	412 ± 16	1.26 ± 0.24
F (percent)		

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Female

	Treatment Groups (mg/kg)					
	10 [a, #]	**10 [b, *]**	**20 [a, #]**	**20 [b, *]**	**40 [a, #]**	**40 [b, *]**
	Plasma					
C_{max} (ug/mL)	0.049 ± 0.012	34.2 ± 2.5	0.13 ± 0.03	62.9 ± 2.5	0.35 ± 0.08	115 ± 1.5
$AUC_{0\text{-}t}$ (ug/mL/hr)	0.38 ± 0.15	551 ± 24	0.77 ± 0.11	1001 ± 29	3.58 ± 0.33	1759 ± 34
F (percent)	35 ± 15		35 ± 9		71 ± 15	

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Female

	Treatment Groups (mg/kg)	
	10 IV [c, #]	**10 IV [c, *]**
	Plasma	
C_{max} (ug/mL)		31.62 ± 1.9
AUC_{0-t} (ug/mL/hr)	1.10 ± 0.23	468 ± 21
F (percent)		

LEGEND

Data are displayed as mean ± SD

MODELING METHOD & BEST FIT MODEL

[a] NONLIN; Open one-compartmental model. AUC estimated using the trapezoidal rule with an endpoint correction based on the estimated elimination half-life.

[b] NONLIN; Open one-compartmental model. AUC estimated using the trapezoidal rule with an endpoint correction based on the estimated elimination half-life. No intravenous data for PCP in mice so bioavailability not calculated.

[c] NONLIN; Two-compartmental model with first-order elimination. AUC estimated using the trapezoidal rule with an endpoint correction based on the estimated elimination half-life.

ANALYTE

[#] Pentachloroanisole

* Pentachlorophenol

TK PARAMETERS

C_{max} = Observed or Predicted Maximum plasma (or tissue) concentration

AUC_{0-t} = Area under the plasma concentration versus time curve, AUC, from time t_i (initial) to t_f (final), AUC_{last}

F = Bioavailability, absolute bioavailability

** END OF REPORT **