Experiment Number: S0361
Route: Gavage, IV
Species/Strain: Rat/F344

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

Date Report Requested: 12/29/2016
Time Report Requested: 14:39:06
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)	0.043 ± 0.002	29 ± 3	0.15 ± 0.035	66 ± 3	0.35 ± 0.069	107 ± 2
$AUC_{0\text{-}t}$ (ug/mL/hr)	0.27 ± 0.01	542 ± 38	0.71 ± 0.27	988 ± 34	2.45 ± 0.73	1596 ± 59
F (percent)	14 ± 3	62 ± 4	19 ± 8	56 ± 2	31 ± 10	45 ± 2

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Male

	Treatment Groups (mg/kg)	
	10 IV [c, #]	**10 IV [c, *]**
	Plasma	
C_{max} (ug/mL)		32 ± 1
AUC_{0-t} (ug/mL/hr)	1.93 ± 0.34	452 ± 13
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)	0.070 ± 0.010	44 ± 2	0.14 ± 0.020	80 ± 1	0.28 ± 0.14	136 ± 6
$AUC_{0\text{-}t}$ (ug/mL/hr)	0.47 ± 0.075	704 ± 22	0.61 ± 0.10	1198 ± 36	3.00 ± 0.50	2084 ± 91
F (percent)	24 ± 8	96 ± 3	16 ± 5	82 ± 2	39 ± 14	71 ± 3

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Female

	Treatment Groups (mg/kg)	
	10 IV [c, #]	**10 IV [c, *]**
	Plasma	
C_{max} (ug/mL)		20 ± 3
AUC_{0-t} (ug/mL/hr)	1.92 ± 0.62	385 ± 16
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. Bioavailability estimated by comparing AUC values obtained after intravenous administration of 5 mg/kg PCP versus AUC values of PCP after gavage administration of PCA.

[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

$AUC_{0\text{-}t}$ = 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 **