

Experiment Number: S0623

Route: Gavage

Species/Strain: Rat/Harlan Sprague-Dawley

Toxicokinetics Data Summary

Test Compound: 2,3,4,7,8-Pentachlorodibenzofuran

CAS Number: 57117-31-4

Date Report Requested: 12/01/2016

Time Report Requested: 16:16:11

Lab: Battelle Columbus

Female

Treatment Groups (ng/kg)

	200 ^a	6 ^a	200 ^a	200 ^b
	Fat (Mesenteric)	Liver		Lung
C _{max} (pg/g)	412.0 ± 99.0	182.0 ± 37.0	5958.0 ± 1570.0	77.0
T _{max}	32.0 d	5.0 d	1.0 d	2.0 h
k ₁₀ (day ⁻¹)	0.0046	0.0046	0.0059	
t _{1/2(k10)} (day)	152.0	151.0	118.0	
AUC _{0-t} (day*pg/g)	68500.0	22900	674000	
AUC _{inf} (day*pg/g)	88500.0	38800	746000	

Experiment Number: S0623

Route: Gavage

Species/Strain: Rat/Harlan Sprague-Dawley

Toxicokinetics Data Summary

Test Compound: 2,3,4,7,8-Pentachlorodibenzofuran

CAS Number: 57117-31-4

Date Report Requested: 12/01/2016

Time Report Requested: 16:16:11

Lab: Battelle Columbus

LEGEND

Data are displayed as mean \pm SD

h = hours; d = days

MODELING METHOD & BEST FIT MODEL

^a Data sets were analyzed by non-compartmental analysis using WinNonlin (Version 4.0 Pharsight Corp., Mountain View, CA); Non-compartmental analysis was performed using individual animal PeCDF concentrations obtained at each time point for a given tissue and dosage level. The interval concentration time points that provided the best R2 value (goodness of fit statistic) from the linear regression analysis were used to define the terminal linear phase of the concentration time profile. Model 200 (extravascular dosing), from the WinNonlin library, was used to calculate the reported toxicokinetic parameters.

^b Not applicable, only C_{max} and T_{max} determined.

ANALYTE

2,3,4,7,8-Pentachlorodibenzofuran

TK PARAMETERS

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

T_{max} = Time at which C_{max} predicted or observed occurs

k₁₀ = Elimination rate constant from the central compartment also k_e or k_{elim}

t_{1/2(k10)} = Half-life for the elimination process from the central compartment

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

AUC_{inf} = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity

**** END OF REPORT ****