

Experiment Number: S0621
Route: Gavage
Species/Strain: Rat/Sprague-Dawley

Toxicokinetics Data Summary
Test Compound: 2,3,7,8-Tetrachlorodibenzo-p-dioxin
CAS Number: 1746-01-6

Date Report Requested: 11/09/2016
Time Report Requested: 14:06:17
Lab: Research Triangle Institute

Female

Treatment Groups (ng/kg)

	50^a	100^a	100^b	50^a	100^a	100^b	50^a	100^a	100^b
	Adipose (Mesenteric)			Adipose (Perirenal)			Liver		
C_{max} (pg/mL)	105.0	483.0	397.0	267.0	384.0	434.0	494.0	943.0	1350.0
T_{max} (day)	40.0	20.0	20.0	2.0	2.0	20.0	1.0	1.0	1.0
Lambdaz (day ⁻¹)	0.0144	0.0168	0.0096	0.0336	0.0144	0.0072	0.0408	0.0024	
$t_{1/2}$ (day)	51.4	40.3	70.1	20.4	48.6	109.0	17.3	542.0	
AUC_{0-t} (pg*day/mL)	5300.0	19200.0	27500.0	5820.0	21000.0	29600.0	8600.0	14600.0	13500.0

Experiment Number: S0621
Route: Gavage
Species/Strain: Rat/Sprague-Dawley

Toxicokinetics Data Summary
Test Compound: 2,3,7,8-Tetrachlorodibenzo-p-dioxin
CAS Number: 1746-01-6

Date Report Requested: 11/09/2016
Time Report Requested: 14:06:17
Lab: Research Triangle Institute

Female

	Treatment Groups (ng/kg)			
	50^a	100^b	100^a	100^b
	Lung		Plasma	
C_{max} (pg/mL)	233.0	101.0	34.7	210.0
T_{max} (day)	40.0	70.0	ND	2.0
Lambdaz (day ⁻¹)				
$t_{1/2}$ (day)				
AUC _{0-t} (pg*day/mL)	2330.0	1510.0	0.361	816.0

Experiment Number: S0621

Route: Gavage

Species/Strain: Rat/Sprague-Dawley

Toxicokinetics Data Summary

Test Compound: 2,3,7,8-Tetrachlorodibenzo-p-dioxin

CAS Number: 1746-01-6

Date Report Requested: 11/09/2016

Time Report Requested: 14:06:17

Lab: Research Triangle Institute

LEGEND

Data are displayed as a mean value

ND = not detected

MODELING METHOD & BEST FIT MODEL

WinNonlin Ver. 1.5A, Pharsight Corporation, Apex, NC; Noncompartmental analysis-Model 200

VOLUME PER ADMINISTRATION

^a Dose volume of 2.5 ml/kg

^b Dose volume of 5.0 ml/kg

ANALYTE

2,3,7,8- Tetrachlorodibenzo-p-dioxin

TK PARAMETERS

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

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

λ_z = Non-compartmental analysis (NCA) terminal elimination rate constant, NCA k_e or k_{elim}

$t_{1/2}$ = λ_z half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

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

**** END OF REPORT ****