

Experiment Number: C93025
Route: Whole Body Respiratory Exposure
Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary
Test Compound: Tetralin
CAS Number: 119-64-2

Date Report Requested: 02/09/2017
Time Report Requested: 12:42:22
Lab: Battelle Northwest Laboratory

	Male		
	Treatment Groups (ppm)		
	15	60	120
		Plasma	
$C_{0min(pred)}$ (ug/g)	0.423	2.26	6.56
Alpha (minute ⁻¹)	0.117	0.0730	0.0421
$t_{1/2(Alpha)}$ (minute)	5.92	9.49	16.5
Beta (minute ⁻¹)	0.0140	0.0121	0.00801
$t_{1/2(Beta)}$ (minute)	49.5	57.2	86.6
AUC _{inf} (ug*min/g)	10.7	72.6	234.0

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	Female		
	Treatment Groups (ppm)		
	15	60	120
		Plasma	
$C_{0min(pred)}$ (ug/g)	0.242	1.93	15.3
Alpha (minute ⁻¹)	0.0906	0.0639	0.393
$t_{1/2(Alpha)}$ (minute)	7.65	10.8	1.76
Beta (minute ⁻¹)	0.00437	0.0131	0.0170
$t_{1/2(Beta)}$ (minute)	159.0	53.0	40.8
AUC _{inf} (ug*min/g)	7.46	67.9	293.0

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LEGEND

Study Start Date: December 10, 1996.

Data are displayed as mean \pm SEM

MODELING METHOD & BEST FIT MODEL

SAS version 8.2 PROC NLIN, SAS Institute Inc., Cary, NC; bi-exponential elimination model-The data were weighted by $1/(\text{mean blood Tetralin concentration})^2$ when fitting.

ANALYTE

Tetralin

TK PARAMETERS

$C_{0\text{min(pred)}}$ = Fitted plasma concentration at time zero (IV only)

Alpha = Hybrid rate constant of the alpha phase

$t_{1/2(\text{alpha})}$ = Half-life for the alpha phase

Beta = Hybrid rate constant of the beta phase

$t_{1/2(\text{beta})}$ = Half-life for the beta phase

Cl = Clearance, includes total clearance

V_1 = Volume of distribution of the central compartment, includes V_d and V_{volume} of distribution, V_z apparent volume of distribution NCA, V_{app} apparent volume of distribution for intravenous studies

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 ****