

Experiment Number: C93025  
Route: IV  
Species/Strain: Mouse/B6C3F1

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

Date Report Requested: 02/09/2017  
Time Report Requested: 12:43:04  
Lab: Battelle Northwest Laboratory

	Male					
	Treatment Groups (mg/kg)					
	2 IV		20 IV			
	Plasma					
$C_{0min(pred)}$ (ug/g)	0.955	±	0.221	20.3	±	4.3
Alpha (minute <sup>-1</sup> )	0.136	±	0.014	0.124	±	0.012
$t_{1/2(Alpha)}$ (minute)	5.11	±	0.54	5.59	±	0.55
Beta (minute <sup>-1</sup> )	0.00553	±	0.00084	0.00921	±	0.00090
$t_{1/2(Beta)}$ (minute)	125	±	19	75.2	±	7.4
Cl (mL/min/kg)	250	±	35	110	±	15
$V_1$ (mL/kg)	1838	±	257	890	±	122
AUC <sub>0-t</sub> (ug*min/g)	7.55	±	1.06	171	±	24
AUC <sub>inf</sub> (ug*min/g)	10.4	±	0.4	187	±	7

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	Female					
	Treatment Groups (mg/kg)					
	2 IV		20 IV			
	Plasma					
$C_{0min(pred)}$ (ug/g)	1.18	±	0.31	18.4	±	3.1
Alpha (minute <sup>-1</sup> )	0.143	±	0.019	0.110	±	0.010
$t_{1/2(Alpha)}$ (minute)	4.84	±	0.63	6.28	±	0.57
Beta (minute <sup>-1</sup> )	0.00924	±	0.00168	0.0119	±	0.0008
$t_{1/2(Beta)}$ (minute)	75.0	±	13.6	58.4	±	3.7
Cl (mL/min/kg)	211	±	33	107	±	11
$V_1$ (mL/kg)	1478	±	231	969	±	103
AUC <sub>0-t</sub> (ug*min/g)	8.92	±	1.38	177.0	±	18
AUC <sub>inf</sub> (ug*min/g)	11.3	±	0.4	198	±	4

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LEGEND

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Study Start Date: March 31, 2003.

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

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

Alpha = Hybrid rate constant of the alpha phase

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

Beta = Hybrid rate constant of the beta phase

$t_{1/2(beta)}$  = 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 \*\***