Experiment Number: C93025
Route: Whole Body Respiratory Exposure
Species/Strain: Rat/F344/N

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

Date Report Requested: 02/09/2017
Time Report Requested: 12:42:37
Lab: Battelle Northwest Laboratory

Male

	Treatment Groups (ppm)		
	15	**60**	**120**
	Plasma		
$C_{0min(pred)}$ (ug/g)	0.330	1.68	4.58
Alpha (minute^-1)	0.0314	0.0257	0.0238
$t_{1/2(Alpha)}$ (minute)	22.1	27.0	29.1
Beta (minute^-1)	0.00518	0.00317	0.00279
$t_{1/2(Beta)}$ (minute)	134.0	219.0	249.0
AUC_{inf} (ug*min/g)	27.7	156.0	431.0

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	Female		
	Treatment Groups (ppm)		
	15	60	120
	Plasma		
$C_{0min(pred)}$ (ug/g)	0.278	1.65	4.43
Alpha (minute^-1)	0.0445	0.0534	0.0418
$t_{1/2(Alpha)}$ (minute)	15.6	13.0	16.6
Beta (minute^-1)	0.00592	0.00434	0.00410
$t_{1/2(Beta)}$ (minute)	117.0	160.0	169.0
AUC_{inf} (ug*min/g)	20.7	127.0	369.0

LEGEND

Study Start Date: December 10, 1996.

Data are displayed as mean ± SEM

MODELING METHOD & BEST FIT MODEL

The nonlinear least-squares fitting program used is SAS PROC NUN (SAS Institute Inc., Cary, NC); bi-exponential elimination model using a nonlinear least- squares fitting program.
The toxicokinetic parameter estimates and fitted models reported were derived using a weighting scheme of 1/mean Tetralin concentration.

ANALYTE

Tetralin

TK PARAMETERS

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

Alpha = Hybrid rate constant of the alpha phase

$t_{½(alpha)}$ = Half-life for the alpha phase

Beta = Hybrid rate constant of the beta phase

$t_{½(beta)}$ = Half-life for the beta phase

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

** END OF REPORT **