

Experiment Number: C93026
Route: Whole Body Respiratory Exposure
Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary
Test Compound: Decalin
CAS Number: 91-17-8

Date Report Requested: 11/09/2016
Time Report Requested: 14:01:40
Lab: Battelle Northwest

	Male		
	Treatment Groups (ppm)		
	25	100	400
		Blood	
$C_{0min(pred)}$ (ug/g)	0.649	4.50	39.3
Alpha (min ⁻¹)	0.0987	0.0790	0.0294
$t_{1/2(Alpha)}$ (minute)	7.02	8.77	23.6
Beta (min ⁻¹)	0.00632	0.00706	0.00650
$t_{1/2(Beta)}$ (minute)	110.0	98.2	107.0
AUC _{inf} (ug*min/g)	34.0	250.0	3340.0

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	Female		
	Treatment Groups (ppm)		
	25	100	400
		Blood	
$C_{0min(pred)}$ (ug/g)	0.582	5.99	42.7
Alpha (min ⁻¹)	0.0570	0.120	0.0267
$t_{1/2(Alpha)}$ (minute)	12.2	5.79	26.0
Beta (min ⁻¹)	0.00561	0.00732	0.00527
$t_{1/2(Beta)}$ (minute)	124.0	94.8	131.0
AUC _{inf} (ug*min/g)	31.3	245.0	3430.0

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LEGEND

Data are displayed as mean \pm SEM

MODELING METHOD & BEST FIT MODEL

Nonlinear least-squares fitting program (SAS PROC NLIN, SAS Institute, Inc., Cary, NC); Toxicokinetic parameters were determined by fitting the equation $C(t) = A_0 e^{-\alpha t} + B_0 e^{-\beta t}$ to the data, where $C(t)$ is the blood concentration of Decalin at any postexposure time (t), α and β are the hybrid rate constants (minute^{-1}) obtained from the fit, and A_0 and B_0 are the intercepts on the ordinate (concentration) axis of the extrapolated initial and terminal phases, respectively. $C_0 = A_0 + B_0$. weighting factor of $[\text{mean Decalin blood concentration}]^{-1}$ for mice.

ANALYTE

Decalin

TK PARAMETERS

$C_{0\text{min}(\text{pred})}$ = 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

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

**** END OF REPORT ****