

Experiment Number: S0545
Route: Gavage, IV
Species/Strain: Hamster/Syrian-Golden

Toxicokinetics Data Summary
Test Compound: DI-n-butyl phthalate
CAS Number: 84-74-2

Date Report Requested: 12/27/2016
Time Report Requested: 11:22:56
Lab: Research Triangle Institute

Male

Treatment Groups (mg/kg)

	67^a	282^a	1333^a	20 IV^a	20 IV^b
	Plasma				
C _{max} (ug/mL)	39.6	167	364	35.0	
T _{max} (minute)	20	40	60		
t _{1/2} (Beta) (minute)	40.4	31.9	358	18.0	
k ₀₁ (minute ⁻¹)					0.0284 ± 0.0052
k ₁₀ (minute ⁻¹)					0.0718 ± 0.018
Cl (mL*min/kg)	20.1	13.4	8.69	20.3	
V ₁ (L/kg)					0.391 ± 0.10
MRT (minute)	73.8	90.7	477	18.0	
AUC _{inf} (ug/mL*min)	2635	16866	122686	788	
F (fraction)	1.01	1.52	2.34		

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LEGEND

Data are displayed as mean \pm SEM

MODELING METHOD & BEST FIT MODEL

^a Models 200 and 201, PCNONLIN software, SCI Software, Lexington, KY; Noncompartmental analysis.

^b Compartmental modeling techniques with established models or models written to simultaneously solve IV and oral data sets (PCNONLIN); 1-compartmental model using equations derived from simultaneous fitting the IV and low oral dose data (Studies X and Y).

ANALYTE

Mono-n-butyl phthalate

TK PARAMETERS

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

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

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

k_{01} = Absorption rate constant, k_a

k_{10} = Elimination rate constant from the central compartment also k_e or k_{elim}

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

MRT = Mean residence time

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

F = Bioavailability, absolute bioavailability

**** END OF REPORT ****