Experiment Number: S0629
Route: Gavage, IV
Species/Strain: Rat/Sprague-Dawley

Toxicokinetics Data Summary
Test Compound: Wyeth-14643
CAS Number: 50892-23-4

Date Report Requested: 11/09/2016
Time Report Requested: 14:05:25
Lab: Research Triangle Institute

	Male				
	Treatment Groups (mg/kg)				
	1 [a]	2 [a]	2 [b]	5 [a]	2 IV [a]
	Plasma				
$C_{max(obs)}$ (ug/mL)	0.961	1.42		5.13	
$T_{max(obs)}$ (minute)	30.0	30.0		15.0	
$t_{1/2(Beta)}$ (minute)	155.0	99.2		129.0	48.9
k_{01} (min^-1)			0.0085		
k_{10} (min^-1)			0.0471 ± 0.0051		
Cl (mL/min/kg)					2.89
$Cl_{1(F)}$ (mL/min/kg)	6.35	8.48		5.48	
V_1 (L/kg)			0.0955 ± 0.0086		
MRT (minute)	221	185		246	38.9
AUC_{inf} (ug/mL*min)	157.0	236.0		912.0	693.0
F (fraction)	0.45	0.34		0.53	

LEGEND

Data are displayed as mean ± SEM

MODELING METHOD & BEST FIT MODEL

[a] Models 200 and 201, PCNONLIN software, Version 4.2, SCI Software, Lexington, KY; Noncompartmental model

[b] PCNONLIN software, Version 4.2, SCI Software, Lexington, KY; Best fit is one compartmental which simultaneously solves iv and mid dose oral data sets. Simultaneous solution of Sprague-Dawley rat intravenous dose (2.0 mg/kg Study X) and mid oral gavage dose (2.0 mg/kg Study Z).

ANALYTE

Wyeth-14643

TK PARAMETERS

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

$T_{max(obs)}$ = Time at which C_{max} predicted or observed occurs

$t_{½(beta)}$ = 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

$Cl_{1(F)}$ = Apparent clearance of the central compartment, also $Cl_{(F)}$ for gavage groups in non-compartmental model

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 **