

Experiment Number: S0976
Route: Gavage, IV
Species/Strain: Rat/F344/Ntac

Toxicokinetics Data Summary
Test Compound: L-Ephedrine
CAS Number: 299-42-3

Date Report Requested: 12/27/2016
Time Report Requested: 11:46:35
Lab: Research Triangle Institute International

	Male							
	Treatment Groups (mg/kg)							
	6.25		12.5		25		6.25 IV	
Plasma								
C _{max} (ng/mL)	438	± 179	669	± 308	949	± 66.1	2493	± 678 *
T _{max} (minute)	24.4	± 23.8	25.0	± 23.5	15.3	± 1.18	0	
Lambdaz (minute ⁻¹)	0.00584	± 0.00175	0.00543	± 0.00116	0.00398	± 0.00175	0.0133	± 0.0075
t _{1/2} (minute)	128	± 39.8	131	± 24.0	201	± 82.2	64.7	± 35.9
Cl (mL/min/kg)							65.8	± 9.9
Cl _{1(F)} (mL/min/kg)	158	± 12	152	± 21	91.4	± 8.7		
V ₁ (mL/kg)							5833	± 2411
V _{1(F)} (mL/kg)	28577	± 6735	28958	± 7660	26125	± 9910		
MRT (minute)	130	± 11	149	± 26	299	± 86	64.7	± 33.5
F (fraction)	41.1	± 3.2	43.2	± 6.1	71.4	± 7.1		

Experiment Number: S0976
Route: Gavage, IV
Species/Strain: Rat/F344/Ntac

Toxicokinetics Data Summary
Test Compound: L-Ephedrine
CAS Number: 299-42-3

Date Report Requested: 12/27/2016
Time Report Requested: 11:46:35
Lab: Research Triangle Institute International

LEGEND

Data are displayed as mean \pm SEM

* Data are displayed as mean \pm SD

MODELING METHOD & BEST FIT MODEL

WinNonlin Version 1.5A Scientific Consulting, Inc., Apex, NC; Non compartmental.

ANALYTE

L-Ephedrine

TK PARAMETERS

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

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

λ_{z} = Non-compartmental analysis (NCA) terminal elimination rate constant, NCA k_e or k_{elim}

$t_{1/2}$ = λ_{z} half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

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

$V_{1(F)}$ = Apparent volume of distribution for the central compartment includes $V_{d(F)}$, $V_{(F)}$ for oral groups, and $V_{c(F)}$

MRT = Mean residence time

F = Bioavailability, absolute bioavailability

**** END OF REPORT ****