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

Toxicokinetics Data Summary
Test Compound: Ma Huang + Caffeine
CAS Number: MHCOMBO

Date Report Requested: 12/27/2016
Time Report Requested: 13:39:18
Lab: Research Triangle Institute International

Male

	Treatment Groups (mg/kg)		
	312.5 #	**312.5 ~**	**312.5 º**
	Plasma		
C_{max} (ng/mL)	418 ± 112	19600 ± 2848	91.1 ± 23.2
T_{max} (minute)	49.1 ± 16.6	244 ± 3.5	34.1 ± 21.4
$Lambda_z$ (minute^-1)	0.00370 ± 0.00029	0.00586 ± 0.00085	0.00381 ± 2.6E-4
$t_{1/2}$ (minute)	188 ± 15.4	120 ± 16.7	183 ± 13.0
$Cl_{1(F)}$ (mL/min/kg)	3151 ± 492	3.64 ± 0.42	15669 ± 2199
$V_{1(F)}$ (mL/kg)	848007 ± 74175	634 ± 150	4105079 ± 371954
MRT (minute)	285 ± 32	270 ± 9.02	276 ± 27.5
F (fraction)	2.09 ± 0.32		

LEGEND

Data are displayed as mean ± SEM

MODELING METHOD & BEST FIT MODEL

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

ANALYTE

[#] L-Ephedrine
[~] Caffeine
[o] Pseudoephedrine

TK PARAMETERS

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

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

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

$t_{½}$ = $Lambda_z$ half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

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

$V_{1(F)}$ = 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 **