

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

**Toxicokinetics Data Summary**  
**Test Compound:** Ma Huang  
**CAS Number:** EPHEDRA

**Date Report Requested:** 12/27/2016  
**Time Report Requested:** 11:46:44  
**Lab:** Research Triangle Institute International

	Male					
	Treatment Groups (mg/kg)					
	312.5 <sup>a</sup>			312.5 <sup>b</sup>		
	Plasma					
C <sub>max</sub> (ng/mL)	92.3	±	28.1	413	±	121
T <sub>max</sub> (minute)	18.0	±	10.3 *	19.2	±	9.1
Lambdaz (minute <sup>-1</sup> )	0.00621 ±		0.00124	0.00550 ±		0.00072
t <sub>1/2</sub> (minute)	115	±	24.9	132	±	21.1
Cl <sub>1(F)</sub> (mL/min/kg)	20964	±	2947	4081	±	480
V <sub>1(F)</sub> (mL/kg)	3472419	±	826586	754720	±	151532
MRT (minute)	174	±	30.6	189	±	30
F (fraction)				1.60	±	0.18

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## LEGEND

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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

<sup>a</sup> Pseudoephedrine

<sup>b</sup> 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

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

$t_{1/2}$  =  $\lambda_{dz}$  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 \*\***