

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

**Toxicokinetics Data Summary**  
**Test Compound:** Ephedrine + Caffeine  
**CAS Number:** EPHEDCOMBO

**Date Report Requested:** 12/27/2016  
**Time Report Requested:** 13:39:11  
**Lab:** Research Triangle Institute International

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	<b>Male</b>			
	<b>Treatment Groups (mg/kg)</b>			
	<b>12.5_30 #</b>		<b>12.5_30 ~</b>	
	<b>Plasma</b>			
C <sub>max</sub> (ng/mL)	22167	± 2294	657	± 140
T <sub>max</sub> (minute)	212	± 79.6 *	15.0	± 0
Lambdaz (minute <sup>-1</sup> )	0.00730 ± 00185		0.00443 ± 0.00070	
t <sub>1/2</sub> (minute)	99.3	± 26.1	160	± 26.6
Cl <sub>1(F)</sub> (mL/min/kg)	2.96	± 0.32	112	± 22.5
V <sub>1(F)</sub> (mL/kg)	433	± 153	25800	± 6520
MRT (minute)	266	± 7.5	240	± 62
F (fraction)			59.4	± 11.1

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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

# Caffeine

~ 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 \*\***