Experiment Number: S0548

Route: Gavage, IV

Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary

Test Compound: Sodium Nitrite **CAS Number:** 7632-00-0

Date Report Requested: 12/02/2016 Time Report Requested: 11:51:32

Lab: Midwest Research Institute

Male									
	Treatment Groups (mg/kg)								
	62.5 a, #	62.5 b, *	125 ^{a, #}	125 ^{b,} *	20 IV a, #	20 IV b, *			
	Plasma								
S max	14.9 percent	34 ug/mL	35.1 percent	54 ug/mL	4.2 percent	20 ug/mL			
max (minute)	15.0	6.1	15.0	11.0	5.0				
/2 (minute)	23		25		18				
/2(k01) (minute)		1.5		2.5					
/2(k10) (minute)		21		39		14			
1 (mL)		28		51		19			
IRT (minute)	38		55		29				
UC _{0-t} (percent min)	665		2720		151				
UCinf (ug*min/mL)		1240		3640		418			
(percent)		95		140					

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Female

	Treatment Groups (mg/kg)								
	62.5 a, #	62.5 b, *	125 ^{a, #}	125 ^{b, *}	20 IV ^{a, #}	20 IV b, *			
	Plasma								
C _{max(pred)}	11.2 percent	23 ug/mL	38.6 percent	52 ug/mL	4.8 percent	18 ug/mL			
T _{max(pred)} (minute)	15.0	7.2	60.0	14.0	2.0				
t _{1/2} (minute)	18		14		15				
t _{1/2(k01)} (minute)		1.7		3.3					
1/2(k10) (minute)		26		50		15			
/ ₁ (mL)		29		53		16			
MRT (minute)	37		60		26				
AUC _{0-t} (percent min)	669		3620		141				
AUC _{inf} (ug*min/mL)		1040		4540		394			
F (percent)		85		180					

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LEGEND

Data are displayed as a mean value

MODELING METHOD & BEST FIT MODEL

- ^a PCNONLIN Statistical Consultants, Inc., Lexington, KY; Non compartmental (NCA) model
- ^b PCNONLIN Statistical Consultants, Inc., Lexington, KY; One compartment model

ANALYTE

- # Methemoglobin
- * Nitrite

TK PARAMETERS

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

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

 $t_{1/2}$ = Lambda₂ half-life, $t_{1/2}$, the terminal elimination half-life based on non-compartmental analysis

 $t_{1/2(k01)}$ = Half-life of the absorption process to the central compartment

 $t_{1/2(k_10)}$ = Half-life for the elimination process from the central compartment

 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

 $AUC_{0-t} = Area under the plasma concentration versus time curve, AUC, from time <math>t_i$ (initial) to t_f (final), AUC_{last}

AUC_{inf} = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity

F = Bioavailability, absolute bioavailability

** END OF REPORT **