Experiment Number: C96016
Route: IV
Species/Strain: Rat/Fischer 344

Toxicokinetics Data Summary
Test Compound: Glyoxylic acid monohydrate
CAS Number: 563-96-2

Date Report Requested: 12/02/2016
Time Report Requested: 10:57:34
Lab: Battelle Columbus

	Male
	Treatment Groups (mg/kg)
	50 IV
	Plasma
C_{max} (ug/mL)	163 ± 32.0
$t_{1/2(Alpha)}$ (minute)	1.81 ± 0.28
$t_{1/2(Beta)}$ (minute)	14.7 ± 4.3
k_{10} (min^-1)	0.252 ± 0.039
$t_{1/2(k10)}$ (minute)	2.75 ± 0.42
k_{12} (min^-1)	0.107 ± 0.019
k_{21} (min^-1)	0.0716 ± 0.0215
Cl (mL/min/kg)	77.1 ± 5.8
V_1 (mL/kg)	306 ± 59
V_2 (mL/kg)	459 ± 151
MRT (minute)	9.92 ± 2.45
AUC_{0-t} (ug/mL*min)	665.0
AUC_{inf} (ug/mL*min)	648 ± 49

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	Female
	Treatment Groups (mg/kg)
	50 IV
	Plasma
C_{max} (ug/mL)	138 ± 17.0
$t_{1/2(Alpha)}$ (minute)	1.96 ± 0.22
$t_{1/2(Beta)}$ (minute)	12.5 ± 1.9
k_{10} (min^-1)	0.226 ± 0.022
$t_{1/2(k10)}$ (minute)	3.07 ± 0.29
k_{12} (min^-1)	0.0959 ± 0.0149
k_{21} (min^-1)	0.0866 ± 0.0154
Cl (mL/min/kg)	81.7 ± 3.5
V_1 (mL/kg)	361 ± 44
V_2 (mL/kg)	400 ± 61
MRT (minute)	9.32 ± 1.01
AUC_{0-t} (ug/mL*min)	576.0
AUC_{inf} (ug/mL*min)	612 ± 26

LEGEND

Data are displayed as mean ± SEM

ANALYTE

Glyoxylic acid monohydrate

TK PARAMETERS

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

$t_{½(alpha)}$ = Half-life for the alpha phase

$t_{½(beta)}$ = Half-life for the beta phase

k_{10} = Elimination rate constant from the central compartment also k_e or k_{elim}

$t_{1/2(k10)}$ = Elimination rate constant from the central compartment also k_e or k_{elim}

k_{12} = Distribution rate constant from first to second compartment etc.

k_{21} = Distribution rate constant from second to first compartment etc.

Cl = Clearance, includes total clearance

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_2 = Volume of distribution for the peripheral compartment

MRT = Mean residence time

AUC_{0-t} = Area under the plasma concentration versus time curve, AUC, from time 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

** END OF REPORT **