Experiment Number: S0322
Route: Gavage, IV
Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary
Test Compound: Emodin
CAS Number: 518-82-1

Date Report Requested: 12/27/2016
Time Report Requested: 11:50:29
Lab: NIEHS_CEDRA Corporation

Male

	Treatment Groups (mg/kg)
	10 IV
	Plasma
$t_{1/2}$ (hour)	2.21
Cl (L/hr*kg)	4.49
V_1 (L/kg)	14.3
AUC_{inf} (mg*hr/L)	2.23

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Toxicokinetics Data Summary
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	Female	
	Treatment Groups (mg/kg)	
	80	10 IV
	Plasma	
$t_{1/2}$ (hour)		4.13
Cl (L/hr*kg)		5.18
V_1 (L/kg)		30.9
AUC_{inf} (mg*hr/L)	1.23	1.93

LEGEND

Data are displayed as mean values

MODELING METHOD & BEST FIT MODEL

The pharmacokinetic calculations were performed with noncompartmental methods using the Quattro Pro (Version 5.0 for Windows, Borland International Inc, Scotts Valley, CA) spreadsheet software; Non-compartmental

ANALYTE

Emodin

TK PARAMETERS

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

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

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

** END OF REPORT **