

Experiment Number: S0322
Route: Gavage, IV
Species/Strain: Rat/F344/N

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

Date Report Requested: 12/27/2016
Time Report Requested: 11:50:43
Lab: NIEHS_CEDRA Corporation

Male		
Treatment Groups (mg/kg)		
	40	5 IV
Plasma		
t _{1/2} (hour)		0.23
Cl (L/hr*kg)		1.18
V ₁ (L/kg)		0.39
AUC _{inf} (mg*hr/L)	0.51	4.24

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Female		
Treatment Groups (mg/kg)		
	40	5 IV
Plasma		
t _{1/2} (hour)		0.36
Cl (L/hr*kg)		2.75
V ₁ (L/kg)		1.42
AUC _{inf} (mg*hr/L)	0.76	1.82

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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

$t_{1/2}$ = λ_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 ****