

Experiment Number: S0312  
Route: Gavage, IV  
Species/Strain: Mouse/B6C3F1

Toxicokinetics Data Summary  
Test Compound: Sulfapyridine  
CAS Number: 144-83-2

Date Report Requested: 12/29/2016  
Time Report Requested: 10:43:48  
Lab: University of Arizona

|                             | Male                     |                   |                   |
|-----------------------------|--------------------------|-------------------|-------------------|
|                             | Treatment Groups (mg/kg) |                   |                   |
|                             | 1000 <sup>a</sup>        | 1000 <sup>b</sup> | 5 IV <sup>b</sup> |
|                             | Plasma                   |                   |                   |
| T <sub>max</sub> (hour)     |                          | 1                 | 1                 |
| t <sub>1/2</sub> (hour)     | 0.097                    | 0.094             | 1.17              |
| Cl (L/hr*kg)                |                          |                   | 0.22              |
| V <sub>1</sub> (L/kg)       |                          |                   | 0.38              |
| MRT (hour)                  | 7.11                     | 7.34              | 1.66              |
| AUC <sub>inf</sub> (M*hour) |                          |                   | 90.6              |
| F (percent)                 |                          | 74.33             |                   |

**Experiment Number:** S0312  
**Route:** Gavage, IV  
**Species/Strain:** Mouse/B6C3F1

**Toxicokinetics Data Summary**  
**Test Compound:** Sulfapyridine  
**CAS Number:** 144-83-2

**Date Report Requested:** 12/29/2016  
**Time Report Requested:** 10:43:48  
**Lab:** University of Arizona

| Female                  |                          |
|-------------------------|--------------------------|
|                         | Treatment Groups (mg/kg) |
|                         | 5 IV <sup>a</sup>        |
|                         | Plasma                   |
| t <sub>1/2</sub> (hour) | 0.629                    |
| MRT (hour)              | 0.27                     |

**Experiment Number:** S0312  
**Route:** Gavage , IV  
**Species/Strain:** Mouse/B6C3F1

**Toxicokinetics Data Summary**  
**Test Compound:** Sulfapyridine  
**CAS Number:** 144-83-2

**Date Report Requested:** 12/29/2016  
**Time Report Requested:** 10:43:48  
**Lab:** University of Arizona

## LEGEND

---

Data are displayed as mean values

### MODELING METHOD & BEST FIT MODEL

<sup>a</sup> Unknown. Data were computed from the plasma concentration-time curves where each point represents the mean of 5-7 mice; N-acetylsulfapyridine concentrations were low.

<sup>b</sup> Unknown. Data were computed from the plasma concentration-time curves where each point represents the mean of 5-7 mice; First-order kinetics

### ANALYTE

Sulfapyridine

### TK PARAMETERS

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

$t_{1/2}$  =  $\lambda_z$  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

MRT = Mean residence time

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

F = Bioavailability, absolute bioavailability

**\*\* END OF REPORT \*\***