Route: IV, Gavage Species/Strain: Rats **Toxicokinetics Data Summary**

Compound: Pyridine/ Analyte: Pyridine

2.5 IV Plasma

CAS Number: 110-86-1

Request Date: 7/11/2023 Request Time: 10:03:16

Lab: CEDRA

5.0 IV Plasmad

Male

Treatment Group (mg/kg)

Cmax_obs (ng/mL)	499 ± 51	3433 ± 205	6313 ± 294	
Tmax_obs (minute)	5	5	5	
Half-life (hour)	0.3	1.1	1.7	
Cl (mL/h*kg)	2185	387	253	
Vss (mL/kg)	792	557	690	
MRT (hour)	0.4	1.4	2.7	
AUCinf_pred (ng*h/mL)	229	6461	19741	

0.5 IV Plasma

Route: IV, Gavage

Toxicokinetics Data Summary

Compound: Pyridine/ Analyte: Pyridine

Request Date: 7/11/2023 Request Time: 10:03:16

Lab: CEDRA

Species/Strain: Rats CAS Number: 110-86-1

Male

Treatment Group (mg/kg)

readment group (mg/kg/				
	5 Gavage Plasma ^a	25 Gavage Plasma ^b	100 Gavage Plasma ^c	
	No Parameters calculated	No Parameters calculated	No Parameters calculated	
Cmax_obs (ng/mL)				
Tmax_obs (minute)				
Half-life (hour)				
Cl (mL/h*kg)				
Vss (mL/kg)				
MRT (hour)				
AUCinf_pred (ng*h/mL)				

Route: IV, Gavage Species/Strain: Rats

Toxicokinetics Data Summary Compound: Pyridine/ Analyte: Pyridine

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LEGEND

MODELING SOFTWARE

PCNONLIN

MODELING METHOD & BEST FIT MODEL

- ^a Due to inconsistent results it was not possible to draw pharmacokinetic conclusions from these data.
- ^b Due to limited and inconsistent data it was not possible to draw meaningful pharmacokinetic conclusions.
- ^c Due to limited data it was not possible to draw meaningful pharmacokinetic conclusions.

EXCEPTIONS

^d Secondary Cmax of 574 (SD 160) ng/mL at 8 hours. AUC calculation without 5 hour time point which had concentrations above the LOQ

ANALYTE

Pyridine

Route: IV, Gavage Species/Strain: Rats Toxicokinetics Data Summary
Compound: Pyridine/ Analyte: Pyridine

CAS Number: 110-86-1

Request Date: 7/11/2023 **Request Time:** 10:03:16

Lab: CEDRA

TK PARAMETERS

Cmax_obs = Observed or Predicted Maximum plasma (or tissue) concentration

Tmax_obs = Time at which Cmax predicted or observed occurs

Half-life = Lambda z Half life, t 1/2, the terminal elimination half-life based on non-compartmental analysis

CI = Clearance, includes total clearance

Vss = Volume of distribution at steady state

MRT = Mean residence time

AUCinf_pred = Area under the plasma concentration versus time curve, AUC, extrapolated to time equals infinity

TK PARAMETERS PROTOCOL

ANALYSIS METHOD

Lower limit of quantitation is 40.0 ng/mL.

TK IV PLASMA

0.5 mg/kg, 5.0 mg/kg

Two blood samples at different times were collected from each dosed rat via alternating orbital sinuses. 8 time points with 3 animals bled at each time point.

2.5 mg/kg

Two blood samples at different times were collected from each dosed rat via alternating orbital sinuses. 6 time points with 3 animals bled at each time point.

Route: IV, Gavage Species/Strain: Rats

Toxicokinetics Data Summary Compound: Pyridine/ Analyte: Pyridine

CAS Number: 110-86-1

Request Date: 7/11/2023 **Request Time:** 10:03:16

Lab: CEDRA

TK PARAMETERS PROTOCOL (cont'd)

ANALYSIS METHOD

Lower limit of quantitation is 40.0 ng/mL.

TK_GAVAGE

5 mg/kg

Two blood samples at different times were collected from each dosed rat via alternating orbital sinuses 2 timepoints with 3 animals bled at each time point.

25 mg/kg

Two blood samples at different times were collected from each dosed rat via alternating orbital sinuses. 6 time points with 3 animals bled at each time point.

100 mg/kg

Two blood samples at different times were collected from each dosed rat via alternating orbital sinuses. 6 timepoints with 3 animals bled at each time point.