Individual Noncompartmental Analysis Result

NONCOMPARTMENTAL ANALYSIS REPORT

Package version 0.5.0 (2023-11-19)

R version 4.3.0 (2023-04-21 ucrt)

Date and Time: 2024-09-17 18:43:31.58565 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV

Observation count excluding trailing zero: 4

Dose at time 0: 0.6 mg

AUC Calculation Method: Linear-up Linear-down

Weighting for lambda z: Uniform (Ordinary Least Square, OLS)

Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

Time		Conc.	Pred.	Residual	AUC	AUMC
0.0000	+	592793.4120			0.0000	0.0000
336.0000	*	65331.7684	70106.4217	-4.775e+03	110565030.2976	3687847661.0909
672.0000	*	7200.2149	8613.9093	-1.414e+03	122750403.4878	8188570783.7580
1008.0000	*	1871.7706	1058.3828	+8.134e+02	124274497.0465	9318419360.2068
1344.0000	*	94.3982	130.0425	-3.564e+01	124604813.3977	9656706831.2215

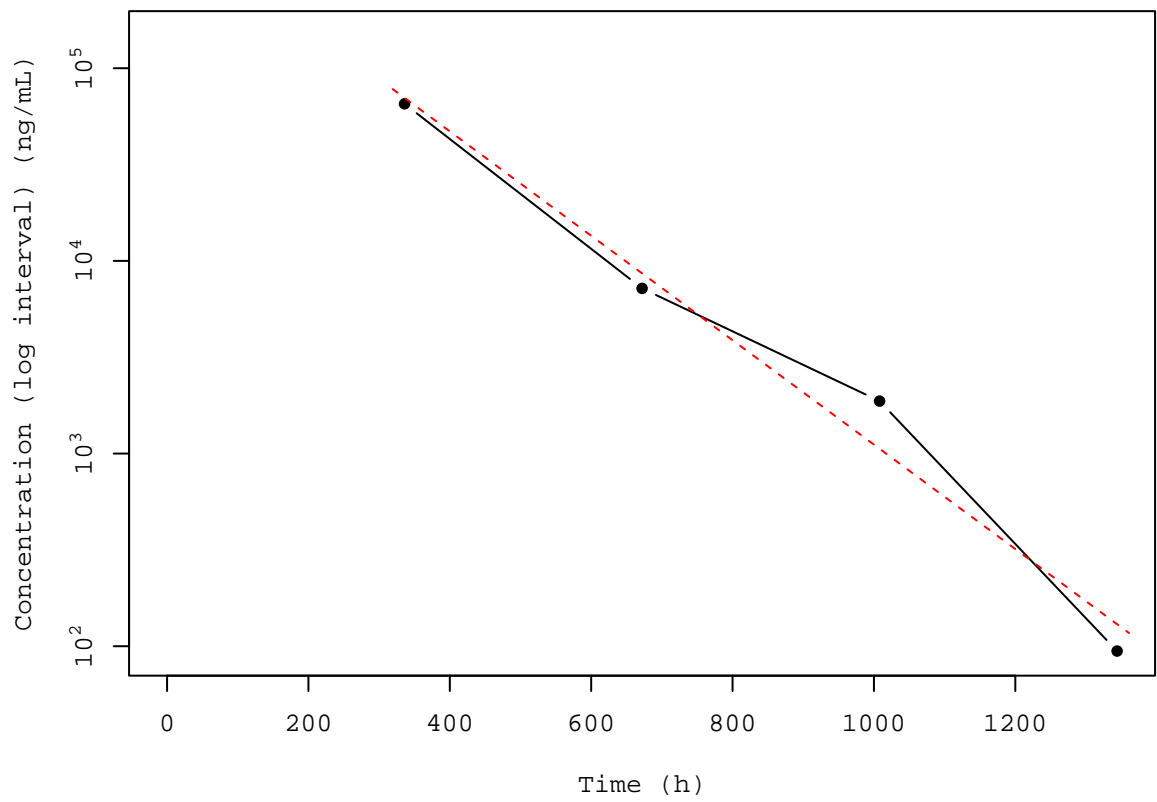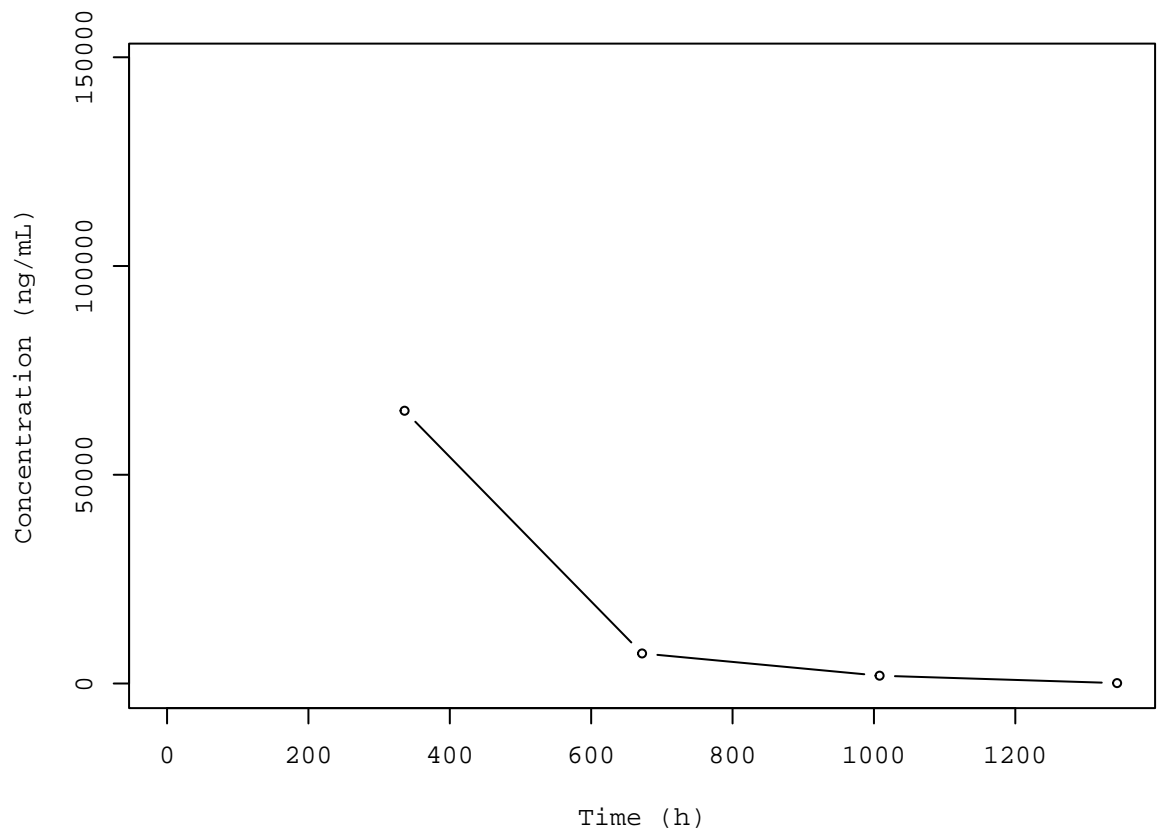+: Back extrapolated concentration

*: Used for the calculation of Lambda z.

Calculated Values

CMAX	Max Conc	65331.7684	ug/L
CMAXD	Max Conc Norm by Dose	108886.2806	ug/L/mg
TMAX	Time of CMAX	336.0000	h
CLST	Last Nonzero Conc	94.3982	ug/L
CLSTP	Last Nonzero Conc Pred	130.0425	ug/L
TLST	Time of Last Nonzero Conc	1344.0000	h
LAMZHL	Half-Life Lambda z	111.0815	h
LAMZ	Lambda z	0.0062	/h
LAMZLL	Lambda z Lower Limit	336.0000	h
LAMZUL	Lambda z Upper Limit	1344.0000	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9896	
R2	R Squared	0.9793	
R2ADJ	R Squared Adjusted	0.9689	
AUCLST	AUC to Last Nonzero Conc	124604813.3977	h*ug/L
AUCALL	AUC All	124604813.3977	h*ug/L
AUCIFO	AUC Infinity Obs	124619941.3406	h*ug/L
AUCIFOD	AUC Infinity Obs Norm by Dose	207699902.2343	h*ug/L/mg
AUCIFP	AUC Infinity Pred	124625653.5786	h*ug/L
AUCIFPD	AUC Infinity Pred Norm by Dose	207709422.6310	h*ug/L/mg
AUCPEO	AUC %Extrapolation Obs	0.0121	%
AUCPEP	AUC %Extrapolation Pred	0.0167	%

AUMCLST	AUMC to Last Nonzero Conc	9656706831.2215	h2*ug/L
AUMCIFO	AUMC Infinity Obs	9679463140.7576	h2*ug/L
AUMCIFP	AUMC Infinity Pred	9688055813.1049	h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.2351	%
AUMCPEP	AUMC % Extrapolation Pred	0.3236	%
C0	Initial Conc	592793.4120	ug/L
AUCPBEO	AUC %Back Extrapolation Obs	88.7218	%
AUCPBEP	AUC %Back Extrapolation Pred	88.7177	%
VZO	Vz Obs	0.0008	L
VZP	Vz Pred	0.0008	L
CLO	Total CL Obs	0.0000	L/h
CLP	Total CL Pred	0.0000	L/h
MRTIVLST	MRT Intravasc to Last Nonzero Conc	77.4987	h
MRTIVIFO	MRT Intravasc Infinity Obs	77.6719	h
MRTIVIFP	MRT Intravasc Infinity Pred	77.7373	h
VSSO	Vol Dist Steady State Obs	0.0004	L
VSSP	Vol Dist Steady State Pred	0.0004	L

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                      Package version 0.5.0 (2023-11-19)
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Date and Time: 2024-09-17 18:43:31.605208 Asia/Seoul

Calculation Setting

Drug Administration: Bolus IV
Observation count excluding trailing zero: 4
Dose at time 0: 0.6 mg
AUC Calculation Method: Linear-up Linear-down
Weighting for lambda z: Uniform (Ordinary Least Square, OLS)
Lambda z selection criterion: Highest adjusted R-squared value with precision=1e-4

Fitting, AUC, AUMC Result

Time		Conc.	Pred.	Residual	AUC	AUMC
0.0000	+	1499687.6987			0.0000	0.0000
336.0000	*	147373.9714	148600.2153	-1.226e+03	276706360.5850	8318965937.5872
672.0000	*	14482.4069	13736.9665	+7.454e+02	303898232.1360	18272937682.2989
1008.0000	*	1171.2737	1269.8787	-9.861e+01	306528050.4686	20106291657.9779
1344.0000	*	121.7268	117.3907	+4.336e+00	306745274.5494	20332124766.3749

+: Back extrapolated concentration

*: Used for the calculation of Lambda z.

Calculated Values

CMAX	Max Conc	147373.9714	ug/L
CMAXD	Max Conc Norm by Dose	245623.2857	ug/L/mg
TMAX	Time of CMAX	336.0000	h
CLST	Last Nonzero Conc	121.7268	ug/L
CLSTP	Last Nonzero Conc Pred	117.3907	ug/L
TLST	Time of Last Nonzero Conc	1344.0000	h
LAMZHL	Half-Life Lambda z	97.8080	h
LAMZ	Lambda z	0.0071	/h
LAMZLL	Lambda z Lower Limit	336.0000	h
LAMZUL	Lambda z Upper Limit	1344.0000	h
LAMZNPT	Number of Points for Lambda z	4	
CORRXY	Correlation Between TimeX and Log ConcY	-0.9998	
R2	R Squared	0.9996	
R2ADJ	R Squared Adjusted	0.9994	
AUCLST	AUC to Last Nonzero Conc	306745274.5494	h*ug/L
AUCALL	AUC All	306745274.5494	h*ug/L
AUCIFO	AUC Infinity Obs	306762451.0733	h*ug/L
AUCIFOD	AUC Infinity Obs Norm by Dose	511270751.7889	h*ug/L/mg
AUCIFP	AUC Infinity Pred	306761839.2151	h*ug/L
AUCIFPD	AUC Infinity Pred Norm by Dose	511269732.0252	h*ug/L/mg
AUCPEO	AUC %Extrapolation Obs	0.0056	%
AUCPEP	AUC %Extrapolation Pred	0.0054	%

AUMCLST	AUMC to Last Nonzero Conc	20332124766.3749 h2*ug/L
AUMCIFO	AUMC Infinity Obs	20357633745.0320 h2*ug/L
AUMCIFP	AUMC Infinity Pred	20356725070.0258 h2*ug/L
AUMCPEO	AUMC %Extrapolation Obs	0.1253 %
AUMCPEP	AUMC % Extrapolation Pred	0.1208 %
C0	Initial Conc	1499687.6987 ug/L
AUCPBEO	AUC %Back Extrapolation Obs	90.2022 %
AUCPBEP	AUC %Back Extrapolation Pred	90.2023 %
VZO	Vz Obs	0.0003 L
VZP	Vz Pred	0.0003 L
CLO	Total CL Obs	0.0000 L/h
CLP	Total CL Pred	0.0000 L/h
MRTIVLST	MRT Intravasc to Last Nonzero Conc	66.2834 h
MRTIVIFO	MRT Intravasc Infinity Obs	66.3629 h
MRTIVIFP	MRT Intravasc Infinity Pred	66.3600 h
VSSO	Vol Dist Steady State Obs	0.0001 L
VSSP	Vol Dist Steady State Pred	0.0001 L

GROUP=G11