

## Appendix

Tables 3 and 4 list the probabilities of target attainment under a range of MIC values, where the target is defined as  $fT > 4 \times MIC \mu\text{g/mL}$  for 50% or 100% of the dosing interval, respectively.

Table 3: Probability of Target Attainment:  $fT > 4 \times MIC \mu\text{g/mL}$  for 50% of Dosing Interval

MIC ( $\mu\text{g/mL}$ )	Dose (g)	Freq. (h)	Prob. SI	Prob. EI	Prob. Ratio (95% CI)	P-value
4	2	6	1.00	1.00	1.00 (1.00, 1.00)	—
4	2	8	1.00	1.00	1.00 (1.00, 1.00)	—
4	3	6	1.00	1.00	1.00 (1.00, 1.00)	—
4	3	8	1.00	1.00	1.00 (1.00, 1.00)	—
4	3	12	0.99	1.00	1.01 (1.00, 1.01)	0.001
4	4	6	1.00	1.00	1.00 (1.00, 1.00)	—
4	4	8	1.00	1.00	1.00 (1.00, 1.00)	—
4	4	12	1.00	1.00	1.00 (1.00, 1.00)	—
8	2	6	0.99	0.99	1.01 (1.00, 1.01)	<0.001
8	2	8	0.95	0.97	1.03 (1.01, 1.04)	0.001
8	3	6	1.00	1.00	1.00 (1.00, 1.00)	—
8	3	8	0.99	1.00	1.00 (1.00, 1.01)	0.11
8	3	12	0.91	0.96	1.06 (1.03, 1.09)	<0.001
8	4	6	1.00	1.00	1.00 (1.00, 1.00)	—
8	4	8	1.00	1.00	1.00 (1.00, 1.00)	—
8	4	12	0.98	0.99	1.01 (1.00, 1.02)	0.005
16	2	6	0.71	0.74	1.05 (1.01, 1.09)	0.007
16	2	8	0.39	0.44	1.12 (1.09, 1.16)	<0.001
16	3	6	0.96	0.97	1.01 (1.00, 1.02)	0.005
16	3	8	0.80	0.84	1.05 (1.01, 1.09)	0.006
16	3	12	0.35	0.42	1.19 (1.13, 1.25)	<0.001
16	4	6	0.99	0.99	1.01 (1.00, 1.01)	<0.001
16	4	8	0.95	0.97	1.03 (1.01, 1.04)	0.001
16	4	12	0.63	0.72	1.14 (1.12, 1.17)	<0.001
32	2	6	0.10	0.11	1.07 (1.01, 1.13)	0.03
32	2	8	0.02	0.03	1.26 (1.03, 1.54)	0.02
32	3	6	0.40	0.42	1.07 (1.04, 1.10)	<0.001
32	3	8	0.18	0.19	1.09 (1.04, 1.15)	<0.001
32	3	12	0.02	0.03	1.25 (0.94, 1.66)	0.12
32	4	6	0.71	0.74	1.05 (1.01, 1.09)	0.007
32	4	8	0.39	0.44	1.12 (1.09, 1.16)	<0.001
32	4	12	0.10	0.11	1.19 (1.08, 1.31)	<0.001
64	2	6	0.00	0.00	— (—, —)	—
64	2	8	0.00	0.00	— (—, —)	—
64	3	6	0.02	0.02	1.17 (1.00, 1.37)	0.06
64	3	8	0.00	0.00	— (—, —)	—
64	3	12	0.00	0.00	— (—, —)	—
64	4	6	0.10	0.11	1.07 (1.01, 1.13)	0.03
64	4	8	0.02	0.03	1.26 (1.03, 1.54)	0.02
64	4	12	0.00	0.00	— (—, —)	—

'Prob.' denotes probability of target attainment. A dash symbol ("—") indicates that the corresponding probability ratio or P-value could not be estimated reliably, e.g., when the denominator probability was zero.

Table 4: Probability of Target Attainment:  $fT > 4 \times MIC_{\mu g/mL}$  for 100% of Dosing Interval

MIC ( $\mu g/mL$ )	Dose (g)	Freq. (h)	Prob. SI	Prob. EI	Prob. Ratio (95% CI)	P-value
4	2	6	0.99	1.00	1.01 (1.00, 1.02)	0.001
4	2	8	0.92	0.98	1.06 (1.01, 1.11)	0.01
4	3	6	1.00	1.00	1.00 (1.00, 1.01)	<0.001
4	3	8	0.98	1.00	1.02 (1.01, 1.03)	0.002
4	3	12	0.77	0.88	1.15 (1.11, 1.20)	<0.001
4	4	6	1.00	1.00	1.00 (1.00, 1.00)	—
4	4	8	0.99	1.00	1.01 (1.00, 1.02)	0.001
4	4	12	0.86	0.95	1.10 (1.06, 1.14)	<0.001
8	2	6	0.87	0.98	1.12 (1.06, 1.19)	<0.001
8	2	8	0.58	0.77	1.34 (1.22, 1.46)	<0.001
8	3	6	0.97	1.00	1.02 (1.01, 1.04)	0.006
8	3	8	0.82	0.95	1.16 (1.10, 1.23)	<0.001
8	3	12	0.34	0.51	1.50 (1.32, 1.70)	<0.001
8	4	6	0.99	1.00	1.01 (1.00, 1.02)	0.001
8	4	8	0.92	0.98	1.06 (1.01, 1.11)	0.012
8	4	12	0.55	0.71	1.30 (1.19, 1.41)	<0.001
16	2	6	0.32	0.55	1.73 (1.51, 1.97)	<0.001
16	2	8	0.10	0.20	1.92 (1.62, 2.27)	<0.001
16	3	6	0.69	0.89	1.30 (1.21, 1.39)	<0.001
16	3	8	0.34	0.54	1.61 (1.44, 1.81)	<0.001
16	3	12	0.05	0.10	1.81 (1.60, 2.05)	<0.001
16	4	6	0.87	0.98	1.12 (1.06, 1.19)	<0.001
16	4	8	0.58	0.77	1.34 (1.22, 1.46)	<0.001
16	4	12	0.14	0.23	1.67 (1.48, 1.89)	<0.001
32	2	6	0.02	0.06	2.52 (1.37, 4.63)	0.003
32	2	8	0.00	0.01	— (—, —)	—
32	3	6	0.15	0.27	1.80 (1.60, 2.04)	<0.001
32	3	8	0.03	0.06	1.94 (1.45, 2.60)	<0.001
32	3	12	0.00	0.00	— (—, —)	—
32	4	6	0.32	0.55	1.73 (1.51, 1.97)	<0.001
32	4	8	0.10	0.20	1.92 (1.62, 2.27)	<0.001
32	4	12	0.01	0.02	2.50 (1.55, 4.03)	<0.001
64	2	6	0.00	0.00	— (—, —)	—
64	2	8	0.00	0.00	— (—, —)	—
64	3	6	0.00	0.01	— (—, —)	—
64	3	8	0.00	0.00	— (—, —)	—
64	3	12	0.00	0.00	— (—, —)	—
64	4	6	0.02	0.06	2.52 (1.37, 4.63)	0.003
64	4	8	0.00	0.01	— (—, —)	—
64	4	12	0.00	0.00	— (—, —)	—

'Prob.' denotes probability of target attainment. A dash symbol ("—") indicates that the corresponding probability ratio or P-value could not be estimated reliably, e.g., when the denominator probability was zero.