

API	Lowest PNEC (µg/L)	Source of Data	PNEC-ENV					PNEC-MIC		Revisions Since Last Version
			EC10 (µg/L)	Species	Test Guideline	PNEC-ENV (µg/L)	PNEC-ENV Rationale	Size Adjusted Lowest MIC ^a (µg/L)	PNEC-MIC ^a (µg/L)	
Amikacin	16.00	Bengtsson-Palme & Larsson, 2016 Industry Data	187	<i>Anabaena flos-aquae</i>	OECD 201	18.70	<i>A. flos-aquae</i> EC10 ÷ 10	125	16.00	No change
Amoxicillin	0.25	Bengtsson-Palme & Larsson, 2016 Industry Data	5.7	<i>Anabaena flos-aquae</i>	OECD 201	0.57	<i>A. flos-aquae</i> EC10 ÷ 10 ^a	2	0.25	No change
		Gonzalez-Pleiter, et al., 2013 Industry Data	6160 530000	<i>Anabaena sp. CPB4337</i> <i>Raphidocelis subcapitata</i>	OECD 201 OECD 201					
		Gonzalez-Pleiter, et al., 2013 Industry Data	1500000	<i>Raphidocelis subcapitata</i>	OECD 201					
Ampicillin	0.25	Bengtsson-Palme & Larsson, 2016 Industry Data	44.6	<i>Anabaena cylindrica</i>	OECD 201	0.60	<i>C. gracile</i> EC10 ÷ 10	4	0.25	No change
		Le Page et al., 2019 Industry Data	8.3 ^b 13	<i>Anabaena flos-aquae</i> <i>Anabaena flos-aquae</i>	OECD 201 OECD 201					
		Le Page et al., 2019 Industry Data	18.7 5.9	<i>Anabaena flos-aquae</i> <i>Cyanobium gracile</i>	OECD 201 OECD 201					
		Industry Data	91500	<i>Daphnia magna</i>	OECD 211					
		Industry Data	94300	<i>Desmodesmus subspicatus</i>	OECD 201					
		Le Page et al., 2019 Industry Data	34.3 100000	<i>Geminocystis herdmanii</i> <i>Raphidocelis subcapitata</i>	OECD 201 OECD 201					
		Le Page et al., 2019	36.5 ^h	<i>Synechocystis sp.</i>	OECD 201					
		Le Page et al., 2019	38.8 ^g	<i>Synechococcus elongates</i>	OECD 201					
		Le Page et al., 2019	16.2 ^g	<i>Synechococcus leopoliensis</i>	OECD 201					
		Industry Data	19	<i>Synechococcus leopoliensis</i>	OECD 201					
		Le Page et al., 2019	38 ^g	<i>Synechococcus sp.</i>	OECD 201					
Avilamycin	8.00	Bengtsson-Palme & Larsson, 2016 Industry Data	1250 ^b	<i>Synechococcus leopoliensis</i>	OECD 201	125.00	<i>S. leopoliensis</i> NOEC ÷ 10	125	8.00	No change
Azithromycin	0.03	Bengtsson-Palme & Larsson, 2016 Le Page et al., 2019	5	<i>Anabaena cylindrica</i>	OECD 201	0.03	<i>M. aeruginosa</i> EC10 ÷ 10	4	0.25	No change
		Le Page et al., 2019 Industry Data	10.5 ^h 4.4	<i>Anabaena flos-aquae</i> <i>Ceriodaphnia dubia</i>	OECD 201 OECD 201					
		Le Page et al., 2019 Industry Data	4.8 3.2	<i>Cyanobium gracile</i> <i>Geminocystis herdmanii</i>	OECD 201 OECD 201					
		Industry Data	0.29	<i>Microcystis aeruginosa</i>	EPA 1002.0					
		Industry Data	4600	<i>Pimephales promelas</i>	OECD 210					
		Industry Data	1.8	<i>Raphidocelis subcapitata</i>	OECD 201					
		Le Page et al., 2019	8.6 ^h	<i>Synechocystis sp.</i>	OECD 201					
		Le Page et al., 2019	4.4 ^g	<i>Synechococcus elongates</i>	OECD 201					
		Le Page et al., 2019	8.7 ^g	<i>Synechococcus leopoliensis</i>	OECD 201					
		Le Page et al., 2019	17.7 ^g	<i>Synechococcus sp.</i>	OECD 201					
Aztreonam	0.50	Bengtsson-Palme & Larsson, 2016 Industry Data	1500	<i>Anabaena flos-aquae</i>	OECD 201	150.00	<i>A. flos-aquae</i> EC10 ÷ 10	8	0.50	No change
Bacitracin	8.00	Bengtsson-Palme & Larsson, 2016 Industry Data	1010	<i>Anabaena flos-aquae</i>	OECD 201	114.60	<i>A. flos-aquae</i> EC10 ÷ 10 ^a	64	8.00	No change
		Industry Data	1300	<i>Anabaena flos-aquae</i>	OECD 201					
Bedaquiline	0.016	AMR-IA Science Team, 2025 ^k Industry Data	0.8 ^b	<i>Anabaena flos-aquae</i>	OECD 201	0.08	<i>A. flos-aquae</i> NOEC ÷ 10	0.125	0.016	No change
		Industry Data	4.1	<i>Brachydanio rerio</i>	OECD 210					
		Industry Data	4.7	<i>Daphnia magna</i>	OECD 211					
		Industry Data	0.8 ^b	<i>Raphidocelis subcapitata</i>	OECD 201					
Benzylpenicillin (penicillin V)	0.25	Bengtsson-Palme & Larsson, 2016 Industry Data	31.1	<i>Anabaena flos-aquae</i>	OECD 201	3.11	<i>A. flos-aquae</i> EC10 ÷ 10	4	0.25	No change
Capreomycin	2.00	Bengtsson-Palme & Larsson, 2016				N/A		16	2.00	No change

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Cefaclor	0.50	Bengtsson-Palme & Larsson, 2016				N/A		8	0.50	No change
Cefadroxil	0.14	Bengtsson-Palme & Larsson, 2016 Industry Data	1.4	<i>Anabaena flos-aquae</i>	OECD 201	0.14	<i>A. flos-aquae</i> EC10 ÷ 10	16	2.00	No change
Cefaloridine	4.00	Bengtsson-Palme & Larsson, 2016				N/A		32	4.00	No change
Cefalothin	2.00	Bengtsson-Palme & Larsson, 2016				N/A		16	2.00	No change
Cefazolin	0.47	Bengtsson-Palme & Larsson, 2016 Industry Data	4.7	<i>Anabaena flos-aquae</i>	OECD 201	0.47	<i>A. flos-aquae</i> EC10 ÷ 10	8	1.00	No change
Cefdinir	0.25	Bengtsson-Palme & Larsson, 2016				N/A		2	0.25	No change
Cefepime	0.50	Bengtsson-Palme & Larsson, 2016 Industry Data Industry Data	13 51000	<i>Anabaena flos-aquae</i> <i>Raphidocelis subcapitata</i>	OECD 201 OECD 202	1.30	<i>A. flos-aquae</i> EC10 ÷ 10	8	0.50	No change
Cefixime	0.06	Bengtsson-Palme & Larsson, 2016 Industry Data	6.4	<i>Anabaena flos-aquae</i>	OECD 201	0.64	<i>A. flos-aquae</i> EC10 ÷ 10	1	0.06	No change
Cefoperazone	0.50	Bengtsson-Palme & Larsson, 2016				N/A		4	0.50	No change
Cefotaxime	0.12	Bengtsson-Palme & Larsson, 2016						1	0.125	No change
		Le Page et al., 2019	1.2	<i>Anabaena cylindrica</i>	OECD 201	0.12	<i>A. cylindrica</i> EC10 ÷ 10			
		Industry Data	4.7	<i>Anabaena flos-aquae</i>	OECD 201					
		Le Page et al., 2019	1.4 ^h	<i>Anabaena flos-aquae</i>	OECD 201					
		Le Page et al., 2019	8.3	<i>Cyanobium gracile</i>	OECD 201					
		Le Page et al., 2019	15.1	<i>Geminocystis herdmanii</i>	OECD 201					
		Le Page et al., 2019	39.8 ^h	<i>Synechocystis</i> sp.	OECD 201					
		Le Page et al., 2019	20.8 ^g	<i>Synechococcus elongates</i>	OECD 201					
		Le Page et al., 2019	8.7 ^g	<i>Synechococcus leopoliensis</i>	OECD 201					
Le Page et al., 2019	16.2 ^g	<i>Synechococcus</i> sp.	OECD 201							
Cefoxitin	8.00	Bengtsson-Palme & Larsson, 2016				N/A		125	8.00	No change
Cefpirome	0.06	Bengtsson-Palme & Larsson, 2016				N/A		0.5	0.06	No change
Cefpodoxime	0.25	Bengtsson-Palme & Larsson, 2016						2	0.25	No change
		Industry Data Industry Data	14.7 21	<i>Anabaena flos-aquae</i> <i>Anabaena flos-aquae</i>	OECD 201 OECD 201	1.76	<i>A. flos-aquae</i> EC10 ÷ 10 ^a			
Cefquinome	0.125	AMR-IA Science Team, 2025 ^k						1	0.125	No change
		Industry Data Industry Data	16 52000	<i>Anabaena flos-aquae</i> <i>Raphidocelis subcapitata</i>	OECD 201 OECD 201	1.60	<i>A. flos-aquae</i> EC10 ÷ 10			
Cefradine (cephradine)	0.19	AMR-IA Science Team, 2025 ^k Industry Data	1.9	<i>Anabaena flos-aquae</i>	OECD 201	0.19	<i>A. flos-aquae</i> EC10 ÷ 10	500	32.00	No change
Ceftaroline	0.06	Bengtsson-Palme & Larsson, 2016						0.5	0.06	No change
		Industry Data	1.2 ^c	<i>Anabaena flos-aquae</i>	OECD 201	0.12	<i>A. flos-aquae</i> NOEC ÷ 10			
		Industry Data	33000 ^c	<i>Raphidocelis subcapitata</i>	OECD 201					
		Industry Data	5000 ^c	<i>Pimephales promelas</i>	OECD 210					
Industry Data	7900 ^c	<i>Daphnia magna</i>	OECD 211							
Ceftazidime	0.50	Bengtsson-Palme & Larsson, 2016						8	0.50	No change
		Industry Data	13	<i>Anabaena flos-aquae</i>	OECD 201	1.30	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	9200	<i>Daphnia magna</i>	OECD 211					
		Industry Data	8000	<i>Pimephales promelas</i>	OECD 210					
Industry Data	120000	<i>Raphidocelis subcapitata</i>	OECD 201							
Ceftibuten	0.25	Bengtsson-Palme & Larsson, 2016				N/A		2	0.25	No change
Ceftiofur	0.06	Bengtsson-Palme & Larsson, 2016 Industry Data	4.03	<i>Anabaena flos-aquae</i>	OECD 201	0.40	<i>A. flos-aquae</i> EC10 ÷ 10	0.5	0.06	No change

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Ceftobiprole	0.23	Bengtsson-Palme & Larsson, 2016						2	0.25	No change
		Industry Data	2.52 ^d	<i>Anabaena flos-aquae</i>	OECD 201	0.23	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	5600	<i>Brachydanio rerio</i>	OECD 210					
		Industry Data	37000	<i>Daphnia magna</i>	OECD 211					
		AMR-IA Science Team, 2025 ^k						16	2.00	No change
		Industry Data	19	<i>Anabaena flos-aquae</i>	OECD 201	1.90	<i>A. flos-aquae</i> EC10 ÷ 10			
Ceftolozane	1.90	Industry Data	9600 ^b	<i>Daphnia magna</i>	OECD 211					
		Industry Data	10000 ^b	<i>Pimephales promelas</i>	OECD 210					
		Industry Data								
		Bengtsson-Palme & Larsson, 2016						0.25	0.03	No change
		Industry Data	3.31	<i>Anabaena flos-aquae</i>	OECD 201	0.33	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	92000 ^b	<i>Daphnia magna</i>	OECD 211					
Ceftriaxone	0.03	Industry Data	98800 ^b	<i>Raphidocelis subcapitata</i>	OECD 201					
		Industry Data	294	<i>Synechococcus leopoliensis</i>	OECD 201					
		Industry Data								
		Bengtsson-Palme & Larsson, 2016						4	0.50	No change
		Industry Data	17	<i>Anabaena flos-aquae</i>	OECD 201	1.70	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	91000	<i>Raphidocelis subcapitata</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016						32	4.00	No change
		Industry Data	2.1	<i>Anabaena flos-aquae</i>	OECD 201	0.21	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	120000	<i>Raphidocelis subcapitata</i>	OECD 201					
Chloramphenicol	8.00	Bengtsson-Palme & Larsson, 2016				N/A		64	8.00	No change
		AMR-IA Science Team, 2025 ^k						8	1.00	No change
		Industry Data	50 ^e	<i>Raphidocelis subcapitata</i>	OECD 201	5.00	<i>R. subcapitata</i> EC10 ÷ 10			
		Industry Data								
Ciprofloxacin	0.06	Bengtsson-Palme & Larsson, 2016						1	0.06	No change
		Ebert et al., 2011	4.47	<i>Anabaena flos-aquae</i>	OECD 201	0.45	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	8042 ^b	<i>Desmodesmus subspicatus</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016						2	0.25	No change
		Baumann et al., 2015	2.6	<i>Anabaena flos-aquae</i>	OECD 201	0.25	<i>R. subcapitata</i> NOEC÷10			
		Maletzki 2013	2.6	<i>Anabaena flos-aquae</i>	OECD 201					
Clarithromycin	0.25	Baumann et al., 2015	2100 ^b	<i>Daphnia magna</i>	OECD 211					
		Yamashita et al. 2006	3.1 ^c	<i>Daphnia magna</i>	OECD 211					
		Baumann et al., 2015	27.8	<i>Desmodesmus subspicatus</i>	ISO 8692					
		Watanabe et al. 2016	2.45 ^c	<i>Raphidocelis subcapitata</i>	OECD 201					
		Industry Data								
		Industry Data								
Clinfloxacin	0.50	Bengtsson-Palme & Larsson, 2016				N/A		4	0.50	No change
		Bengtsson-Palme & Larsson, 2016						8	1.00	No change
		Industry Data	8.1	<i>Anabaena flos-aquae</i>	OECD 201	0.10	<i>R. subcapitata</i> EC10 ÷ 10			
		Industry Data	0.98	<i>Raphidocelis subcapitata</i>	OECD 201					
Clofazimine	0.03	AMR-IA Science Team, 2025 ^k				N/A		0.25	0.03	No change
		Bengtsson-Palme & Larsson, 2016						1	0.125	No change
		Industry Data	200	<i>Anabaena flos-aquae</i>	OECD 201	20.00	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data								
Colistin (Polymyxin E)	2.00	Bengtsson-Palme & Larsson, 2016						16	2.00	No change
		Industry Data	90	<i>Anabaena flos-aquae</i>	OECD 201	9.00	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data								
		Industry Data								
Dapsone	0.05	AMR-IA Science Team ⁿ				N/A		N/A	0.05 (default)	New API
		Bengtsson-Palme & Larsson, 2016						8	1.00	No change
		Industry Data	17000	<i>Anabaena flos-aquae</i>	OECD 201	510.00	<i>P. promelas</i> NOEC ÷ 10			
		Industry Data	34000	<i>Raphidocelis subcapitata</i>	OECD 201					
Daptomycin	1.00	Industry Data	5100 ^b	<i>Pimephales promelas</i>	OECD 210					
		Industry Data	6800	<i>Daphnia magna</i>	OECD 211					
		Industry Data								

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Delamanid	0.03	AMR-IA Science Team ^a						N/A	0.05 (default)	No change
		Industry Data	≥0.42 ^c	<i>Anabaena flos-aquae</i>	OECD 201	0.03	<i>R. subcapitata</i> NOEC÷10			
		Industry Data	≥0.59 ^c	<i>Daphnia magna</i>	OECD 211					
		Industry Data	≥0.71 ^c	<i>Pimephales promelas</i>	OECD 210					
		Industry Data	≥0.3 ^c	<i>Raphidocelis subcapitata</i>	OECD 201					
Doripenem	0.125	Bengtsson-Palme & Larsson, 2016						1	0.125	No change
		Industry Data	4.6	<i>Anabaena flos-aquae</i>	OECD 201	0.46	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	9200	<i>Brachydanio rerio</i>	OECD 210					
		Industry Data	9400	<i>Daphnia magna</i>	OECD 211					
		Industry Data	61000 ^b	<i>Scenedesmus subspicatus</i>	OECD 201					
Doxycycline	2.00	Bengtsson-Palme & Larsson, 2016						16	2.00	No change
		Industry Data	251	<i>Anabaena flos-aquae</i>	OECD 201	25.10	<i>A. flos-aquae</i> EC10 ÷ 10			
Enrofloxacin	0.06	Bengtsson-Palme & Larsson, 2016						0.5	0.06	No change
		Ebert et al., 2011	19.1 ^b	<i>Anabaena flos-aquae</i>	OECD 201	1.91	<i>A. flos-aquae</i> NOEC ÷ 10			
		Industry Data	19.1 ^c	<i>Synechococcus leopoliensis</i>	OECD 201					
		Ebert et al., 2011	1140 ^b	<i>Desmodesmus subspicatus</i>	OECD 201					
		Industry Data	1600	<i>Daphnia magna</i>	OECD 211					
Eravacycline	0.05	AMR-IA Science Team, 2026 ^k						1.8	0.125	New API
		Industry Data	0.5	<i>Anabaena flos-aquae</i>	OECD 211	0.05	<i>A. flos-aquae</i> EC10 ÷ 10			
Ertapenem	0.125	Bengtsson-Palme & Larsson, 2016						1	0.125	No change
		Industry Data	140	<i>Anabaena flos-aquae</i>	OECD 201	14.00	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	82000	<i>Daphnia magna</i>	OECD 211					
		Industry Data	2500	<i>Pimephales promelas</i>	OECD 210					
		Industry Data	51000	<i>Raphidocelis subcapitata</i>	OECD 201					
Erythromycin	0.50	Bengtsson-Palme & Larsson, 2016						8	1.00	No change
		Le Page et al., 2019	22.3	<i>Anabaena cylindrica</i>	OECD 201	0.50	<i>A. sp. CPB4337</i> EC10÷10			
		Gonzalez-Pleiter, et al., 2013	5	<i>Anabaena sp. CPB4337</i>	OECD 201					
		Le Page et al., 2019	58.8 ^h	<i>Anabaena flos-aquae</i>	OECD 201					
		Le Page et al., 2019	44.5	<i>Cyanobium gracile</i>	OECD 201					
		Le Page et al., 2019	50.7	<i>Geminocystis herdmannii</i>	OECD 201					
		Gonzalez-Pleiter, et al., 2013	36	<i>Raphidocelis subcapitata</i>	OECD 201					
		Le Page et al., 2019	21.2 ^h	<i>Synechocystis sp.</i>	OECD 201					
		Le Page et al., 2019	30.1 ^e	<i>Synechococcus elongates</i>	OECD 201					
		Le Page et al., 2019	35 ^e	<i>Synechococcus leopoliensis</i>	OECD 201					
		Le Page et al., 2019	29.1 ^e	<i>Synechococcus sp.</i>	OECD 201					
Ethambutol	2.00	Bengtsson-Palme & Larsson, 2016						16	2.00	No change
		Industry Data	750 ^b	<i>Anabaena flos-aquae</i>	OECD 201	75.00	<i>A. flos-aquae</i> NOEC ÷ 10			
Faropenem	0.016	Bengtsson-Palme & Larsson, 2016				N/A		0.125	0.016	No change
Fidaxomicin	0.016	Bengtsson-Palme & Larsson, 2016						0.125	0.016	No change
		Industry Data	>18400	<i>Anabaena flos-aquae</i>	OECD 201	891.00	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	19600 ^b	<i>Daphnia magna</i>	OECD 211					
		Industry Data	8910 ^b	<i>Pimephales promelas</i>	OECD 210					
Florfenicol	2.00	Bengtsson-Palme & Larsson, 2016						16	2.00	No change
		Industry Data	51 ^b	<i>Anabaena flos-aquae</i>	OECD 201	38.00	<i>A. flos-aquae</i> EC10 ÷ 10 ^f			
		Industry Data	110 ^b	<i>Anabaena flos-aquae</i>	OECD 201					
		Industry Data	380	<i>Anabaena flos-aquae</i>	OECD 201					
		Industry Data	750 ^b	<i>Raphidocelis subcapitata</i>	OECD 201					
		Industry Data	1500	<i>Daphnia magna</i>	OECD 211					
		Industry Data	800 ^b	<i>Daphnia magna</i>	OECD 211					
		Industry Data	5500	<i>Pimephales promelas</i>	OECD 210					
		Industry Data	5500	<i>Pimephales promelas</i>	OECD 210					

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Flucloxacillin	0.125	AMR-IA Science Team, 2025 ^k Industry Data	268	<i>Anabaena flos-aquae</i>	OECD 201	26.80	<i>A. flos-aquae</i> EC10 ÷ 10	1	0.125	No change
Flumequine	0.25	Bengtsson-Palme & Larsson, 2016				N/A		4	0.25	No change
Fosfomicin	2.00	Bengtsson-Palme & Larsson, 2016 Industry Data	524	<i>Anabaena flos-aquae</i>	OECD 201	52.40	<i>A. flos-aquae</i> EC10 ÷ 10	32	2.00	No change
Fusidic acid	0.50	Bengtsson-Palme & Larsson, 2016				N/A		4	0.50	No change
Framycetine (Neomycin B)	0.05	AMR-IA Science Team ⁿ				N/A			0.05 (default)	No change
Gamithromycin	0.24	AMR-IA Science Team, 2025 ^k Industry Data	2.42	<i>Anabaena flos-aquae</i>	OECD 201	0.24	<i>A. flos-aquae</i> EC10 ÷ 10	8	0.50	No change
Gatifloxacin	0.125	Bengtsson-Palme & Larsson, 2016				N/A		2	0.125	No change
Gemifloxacin	0.06	Bengtsson-Palme & Larsson, 2016				N/A		0.5	0.06	No change
Gentamicin	0.15	Bengtsson-Palme & Larsson, 2016				0.15	<i>R. subcapitata</i> EC10÷10	16	1.00	No change
		Industry Data	2	<i>Anabaena flos-aquae</i>	OECD 201					
		Industry Data	6.2	<i>Daphnia magna</i>	OECD 211					
		Industry Data	9.62	<i>Daphnia magna</i>	OECD 211					
		Industry Data	1.5	<i>Raphidocelis subcapitata</i>	OECD 201					
Gepotidacin	1	Industry Data	65.9	<i>Synechococcus leopoliensis</i>	OECD 201					
		AMR-IA Science Team, 2025 ^{k,m} Industry Data	60	<i>Anabaena flos-aquae</i>	OECD 201	6	<i>A. flos-aquae</i> EC10 ÷ 10	14.1 ^m	1	No change
Imipenem	0.125	Bengtsson-Palme & Larsson, 2016						2	0.125	No change
		Industry Data	4.1	<i>Anabaena flos-aquae</i>	OECD 201	0.41	<i>A. flos-aquae</i> EC10 ÷ 10			
Isoniazid	0.125	Industry Data	74000	<i>Raphidocelis subcapitata</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016						1	0.125	No change
Kanamycin	1.05	Industry Data	12900	<i>Anabaena flos-aquae</i>	OECD 201	1290.00	<i>A. flos-aquae</i> EC10 ÷ 10			
		Bengtsson-Palme & Larsson, 2016						32	2.00	No change
		Industry Data	11	<i>Anabaena flos-aquae</i>	OECD 201	1.05	<i>S. leopoliensis</i> EC10 ÷ 10			
		Industry Data	6830	<i>Daphnia magna</i>	OECD 211					
		Industry Data	4970	<i>Desmodesmus subspicatus</i>	OECD 201					
		Industry Data	310	<i>Raphidocelis subcapitata</i>	OECD 201					
		Industry Data	10.5	<i>Synechococcus leopoliensis</i>	OECD 201					
Levofloxacin	0.25	Industry Data	10.5	<i>Synechococcus leopoliensis</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016						4	0.25	No change
		Industry Data	5.22	<i>Anabaena flos-aquae</i>	OECD 201	1.52	<i>A. flos-aquae</i> EC10 ÷ 10 ^o			
		Industry Data	44	<i>Anabaena flos-aquae</i>	OECD 201					
Lincomycin	0.81	Gonzalez-Pleiter, et al., 2013	1100	<i>Anabaena sp. CPB4337</i>	OECD 201					
		Gonzalez-Pleiter, et al., 2013	930	<i>Raphidocelis subcapitata</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016						16	2.00	No change
		Guo et al., 2016	12.20 ⁱ	<i>Anabaena flos-aquae</i>	OECD 201	0.81	<i>S. leopoliensis</i> EC10 ÷ 10			
		Industry Data	14.3	<i>Anabaena flos-aquae</i>	OECD 201					
		Guo et al., 2016	91770 ^{b,j}	<i>Chlorella vulgaris</i>	OECD 201					
		Guo et al., 2016	77.24 ⁱ	<i>Desmodesmus subspicatus</i>	OECD 201					
Linezolid	3.50	Guo et al., 2016	357.75 ⁱ	<i>Raphidocelis subcapitata</i>	OECD 201					
		Guo et al., 2016	8.13 ⁱ	<i>Synechococcus leopoliensis</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016						64	8.00	No change
		Industry Data	35 ⁱ	<i>Anabaena flos-aquae</i>	OECD 201	3.50	<i>A. flos-aquae</i> EC10 ÷ 10			
Loracarbef	2.00	Industry Data	9900	<i>Pimephales promelas</i>	OECD 210					
		Industry Data	24000	<i>Daphnia magna</i>	OECD 211					
Loracarbef	2.00	Bengtsson-Palme & Larsson, 2016				N/A		16	2.00	No change
Mecillinam	1.00	Bengtsson-Palme & Larsson, 2016				N/A		8	1.00	No change

API	Lowest PNEC (µg/L)	Source of Data	PNEC-ENV					PNEC-MIC		Revisions Since Last Version
			EC10 (µg/L)	Species	Test Guideline	PNEC-ENV (µg/L)	PNEC-ENV Rationale	Size Adjusted Lowest MIC ^a (µg/L)	PNEC-MIC ^a (µg/L)	
Meropenem	0.06	Bengtsson-Palme & Larsson, 2016 Industry Data	15 ^c	<i>Anabaena flos-aquae</i>	OECD 201	1.50	<i>A. flos-aquae</i> NOEC ÷ 10	0.5	0.06	No change
Metronidazole	0.125	Bengtsson-Palme & Larsson, 2016				N/A		2	0.125	No change
Minocycline	1.00	Bengtsson-Palme & Larsson, 2016 Industry Data	11	<i>Anabaena flos-aquae</i>	OECD 201	1.10	<i>A. flos-aquae</i> EC10 ÷ 10	16	1.00	No change
Moxifloxacin	0.125	Bengtsson-Palme & Larsson, 2016				N/A		2	0.125	No change
Mupirocin	0.25	Bengtsson-Palme & Larsson, 2016				N/A		2	0.25	No change
Nalidixic acid	16.00	Bengtsson-Palme & Larsson, 2016				N/A		125	16.00	No change
Narasin	0.50	Bengtsson-Palme & Larsson, 2016				N/A		4	0.50	No change
Neomycin	0.03	Bengtsson-Palme & Larsson, 2016 Industry Data	0.3 2.2	<i>Anabaena flos-aquae</i> <i>Raphidocelis subcapitata</i>	OECD 201 OECD 201	0.03	<i>A. flos-aquae</i> EC10 ÷ 10	16	2.00	No change
Netilmicin	0.50	Bengtsson-Palme & Larsson, 2016				N/A		4	0.50	No change
Nitrofurantoin	64.00	Bengtsson-Palme & Larsson, 2016				N/A		500	64.00	No change
Norfloxacin	0.50	Bengtsson-Palme & Larsson, 2016 Gonzalez-Pleiter, et al., 2013 Gonzalez-Pleiter, et al., 2013	1200 10900	<i>Anabaena sp. CPB4337</i> <i>Raphidocelis subcapitata</i>	OECD 201 OECD 201	120.00	<i>A. sp. CPB4337</i> EC10÷10	4	0.50	No change
Ofloxacin	0.50	Bengtsson-Palme & Larsson, 2016 Industry Data	100 ^b	<i>Anabaena flos-aquae</i>	OECD 201	10.00	<i>A. flos-aquae</i> NOEC ÷ 10	4	0.50	No change
Omadacycline	1.00	AMR-IA Science Team, 2025 ^k				N/A		8	1.00	No change
Oxacillin	1.00	Bengtsson-Palme & Larsson, 2016				N/A		16	1.00	No change
Oxytetracycline	0.50	Bengtsson-Palme & Larsson, 2016 Kolar et al., 2014 Kolar et al., 2014	1500 470	<i>Anabaena flos-aquae</i> <i>Raphidocelis subcapitata</i>	OECD 201 OECD 201	47.00	<i>R. subcapitata</i> EC10 ÷ 10	4	0.50	No change
Perfloxacin	8.00	Bengtsson-Palme & Larsson, 2016				N/A		64	8.00	No change
Phenoxymethylpenicillin (Penicillin G)		Bengtsson-Palme & Larsson, 2016						0.5	0.06	No change
Phenoxymethylpenicillin (Penicillin G)	0.06	Industry Data	9.6	<i>Anabaena flos-aquae</i>	OECD 201	0.96	<i>A. flos-aquae</i> EC10 ÷ 10			No change
Phenoxymethylpenicillin procaine (Penicillin G Procaine)		Industry Data	160	<i>Anabaena flos-aquae</i>	OECD 201					No change
Piperacillin	0.50	Bengtsson-Palme & Larsson, 2016 Industry Data	43	<i>Anabaena flos-aquae</i>	OECD 201	4.30	<i>A. flos-aquae</i> EC10 ÷ 10	4	0.50	No change
Pivmecillinam	0.05	AMR-IA Science Team ⁿ				N/A			0.05 (default)	No change
Polymixin B	0.06	AMR-IA Science Team, 2025 ^k Bengtsson-Palme & Larsson, 2016 Industry Data Industry Data	0.57 7.6	<i>Anabaena flos-aquae</i> <i>Raphidocelis subcapitata</i>	OECD 201 OECD 201	0.06	<i>A. flos-aquae</i> EC10 ÷ 10	16 ^l 16 ^l	2.00	No change
Pretomanid	0.05	AMR-IA Science Team ⁿ				N/A			0.05 (default)	No change
Retapamulin	0.06	Bengtsson-Palme & Larsson, 2016				N/A		0.5	0.06	No change
Rifampicin	0.06	Bengtsson-Palme & Larsson, 2016 Industry Data	40.6	<i>Anabaena flos-aquae</i>	OECD 201	4.06	<i>A. flos-aquae</i> EC10 ÷ 10	0.5	0.06	No change
Rifamycin	0.05	AMR-IA Science Team ⁿ Industry Data	9.9	<i>Anabaena flos-aquae</i>	OECD 201	1.00	<i>A. flos-aquae</i> EC10 ÷ 10		0.05 (default)	No change
Rifaximin	0.05	AMR-IA Science Team ⁿ Industry Data	1.1	<i>Anabaena flos-aquae</i>	OECD 201	0.11	<i>A. flos-aquae</i> EC10 ÷ 10		0.05 (default)	No change
Roxithromycin	1.00	Bengtsson-Palme & Larsson, 2016 Industry Data	68.4	<i>Anabaena flos-aquae</i>	OECD 201	6.84	<i>A. flos-aquae</i> EC10 ÷ 10	8	1.00	No change

API	Lowest PNEC (µg/L)	Source of Data	PNEC-ENV					PNEC-MIC		Revisions Since Last Version
			EC10 (µg/L)	Species	Test Guideline	PNEC-ENV (µg/L)	PNEC-ENV Rationale	Size Adjusted Lowest MIC ^a (µg/L)	PNEC-MIC ^a (µg/L)	
Secnidazole	1.00	Bengtsson-Palme & Larsson, 2016				N/A		8	1.00	No change
Sparfloxacin	0.06	Bengtsson-Palme & Larsson, 2016				N/A		1	0.06	No change
Spectinomycin	32.00	Bengtsson-Palme & Larsson, 2016				N/A		250	32.00	No change
Spiramycin	0.50	Bengtsson-Palme & Larsson, 2016						4	0.50	No change
		Industry Data	250	<i>Raphidocelis subcapitata</i>	OECD 201	1.09	<i>A. flos-aquae</i> EC10 ÷ 10			
Streptomycin	16.00	Industry Data	10.9	<i>Synechococcus leopoliensis</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016				N/A		125	16.00	No change
Sulfadiazine	0.05	AMR-IA Science Team ^a						N/A	0.05 (default)	No change
		Industry Data	7200	<i>Anabaena flos-aquae</i>	OECD 201	11.21	<i>R. subcapitata</i> EC10÷10 ^a			
		Industry Data	30	<i>Raphidocelis subcapitata</i>	OECD 201					
		Industry Data	419	<i>Raphidocelis subcapitata</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016						125	16.00	No change
		Ferrari et al., 2004	90 ^{c,i}	<i>Raphidocelis subcapitata</i>	ISO 8692	6.6	<i>A. flos-aquae</i> EC10 ÷ 10 ^f			
		Ferrari et al., 2004	5.9 ^c	<i>Synechococcus leopoliensis</i>	ISO 8692					
Sulfamethoxazole	6.6	Industry Data	153	<i>Synechococcus leopoliensis</i>	OECD 201					
		Industry Data	66	<i>Anabaena flos-aquae</i>	OECD 201					
		Industry Data	1730	<i>Daphnia magna</i>	OECD 211					
		AMR-IA Science Team ^a							0.05 (default)	No change
Sulfanilamide	0.05	Industry Data	2300	<i>Synecocchus leopoliensis</i>	OECD 201	230.00	<i>S. leopoliensis</i> EC10 ÷ 10			
		Industry Data	>34000	<i>Anabaena flos-aquae</i>	OECD 201					
		Industry Data	5800	<i>Raphidocelis subcapitata</i>	OECD 201					
Tedizolid	0.50	AMR-IA Science Team, 2025 ^k						8	0.50	No change
		Industry Data	98	<i>Anabaena flos-aquae</i>	OECD 201	3.20	<i>P. promelas</i> EC10 ÷ 10			
		Industry Data	600	<i>Daphnia magna</i>	OECD 211					
		Industry Data	31.75	<i>Pimephales promelas</i>	OECD 210					
		Bengtsson-Palme & Larsson, 2016						4	0.50	No change
		Industry Data	129	<i>Anabaena flos-aquae</i>	OECD 201	12.90	<i>A. flos-aquae</i> EC10 ÷ 10			
Telithromycin	0.06	Bengtsson-Palme & Larsson, 2016				N/A	No industry data	1	0.06	No change
Tetracycline	1.00	Bengtsson-Palme & Larsson, 2016						16	1.00	No change
		Gonzalez-Pleiter, et al., 2013	2500	<i>Anabaena sp. CPB4337</i>	OECD 201	3.20	<i>R. subcapitata</i> EC10÷10			
		Gonzalez-Pleiter, et al., 2013	32	<i>Raphidocelis subcapitata</i>	OECD 201					
Thiamphenicol	1.00	Bengtsson-Palme & Larsson, 2016				N/A		8	1.00	No change
Tiamulin	1.00	Bengtsson-Palme & Larsson, 2016				N/A		8	1.00	No change
Ticarcillin	8.00	Bengtsson-Palme & Larsson, 2016				N/A		64	8.00	No change
Tigecycline	0.10	Bengtsson-Palme & Larsson, 2016						16	1.00	No change
		Industry Data	1	<i>Anabaena flos-aquae</i>	OECD 201	0.10	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	2100	<i>Daphnia magna</i>	OECD 211					
		Industry Data	22	<i>Pimephales promelas</i>	OECD 210					
		Industry Data	1650	<i>Raphidocelis subcapitata</i>	OECD 201					
Tildipirosin	0.42	AMR-IA Science Team, 2025 ^k						32	4.00	No change
		Industry Data	4.2	<i>Anabaena flos-aquae</i>	OECD 201	0.42	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	47	<i>Raphidocelis subcapitata</i>	OECD 201					
		Bengtsson-Palme & Larsson, 2016						8	1.00	No change
Tilmicosin	0.80	Industry Data	8	<i>Anabaena flos-aquae</i>	OECD 201	0.80	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	2600 ^c	<i>Raphidocelis subcapitata</i>	FDA 4.01					
		Bengtsson-Palme & Larsson, 2016						8	1.00	No change
		Industry Data	43	<i>Anabaena flos-aquae</i>	OECD 201	4.30	<i>A. flos-aquae</i> EC10 ÷ 10			
		Industry Data	360 ^c	<i>Daphnia magna</i>	OECD 211					
		Industry Data	10000 ^b	<i>Pimephales promelas</i>	OECD 210					

API	Lowest PNEC (µg/L)	Source of Data	PNEC-ENV					PNEC-MIC		Revisions Since Last Version
			EC10 (µg/L)	Species	Test Guideline	PNEC-ENV (µg/L)	PNEC-ENV Rationale	Size Adjusted Lowest MIC ^a (µg/L)	PNEC-MIC ^a (µg/L)	
Trimethoprim	0.50	Bengtsson-Palme & Larsson, 2016						8	0.50	No change
		Industry Data	8 ^j	<i>Anabaena flos-aquae</i>	OECD 201	928.00	<i>D. magna</i> EC10 ÷ 10 ^f			
		Industry Data	25000	<i>Anabaena flos-aquae</i>	OECD 201					
		Kolar et al., 2014	26000	<i>Anabaena flos-aquae</i>	OECD 201					
		Guo et al., 2016	18328 ⁱ	<i>Anabaena flos-aquae</i>	OECD 201					
		Industry Data	26000	<i>Anabaena flos-aquae</i>	OECD 201					
		Industry Data	100000 ^b	<i>Brachydanio rerio</i>	OECD 210					
		Industry Data	100000 ^b	<i>Brachydanio rerio</i>	OECD 210					
Trimethoprim (cont..)	0.5	Industry Data	5600 ^c	<i>Cerodaphnia dubia</i>	EPA 1002.0					
		Guo et al., 2016	100000 ^{b,i}	<i>Chlorella vulgaris</i>	OECD 201					
		Park and Choi, 2008	6000 ^b	<i>Daphnia magna</i>	OECD 211					
		Industry Data	9280	<i>Daphnia magna</i>	OECD 211					
		Guo et al., 2016	100000 ^{b,i}	<i>Desmodesmus subspicatus</i>	OECD 201					
		Industry Data	32000 ^b	<i>Raphidocelis subcapitata</i>	OECD 201					
		Guo et al., 2016	63371 ^{b,i}	<i>Raphidocelis subcapitata</i>	OECD 201					
		Kolar et al., 2014	65000	<i>Raphidocelis subcapitata</i>	OECD 201					
Trovafoxacin	0.03	Industry Data	67700	<i>Synechococcus leopoliensis</i>	OECD 201					
		Guo et al., 2016	28300 ^j	<i>Synechococcus leopoliensis</i>	OECD 201					
Tylosin	0.98	Bengtsson-Palme & Larsson, 2016				N/A		0.5	0.03	No change
		Bengtsson-Palme & Larsson, 2016						32	4.00	No change
		Guo et al., 2016	18.3 ⁱ	<i>Anabaena flos-aquae</i>	OECD 201	0.98	<i>S.leopoliensis</i> EC10 ÷ 10 ^g			
		Industry Data	47 ^c	<i>Anabaena flos-aquae</i>	OECD 201					
		Guo et al., 2016	74390 ^{b,j}	<i>Chlorella vulgaris</i>	OECD 201					
		Guo et al., 2016	3710 ⁱ	<i>Desmodesmus subspicatus</i>	OECD 201					
		Guo et al., 2016	834 ⁱ	<i>Desmodesmus subspicatus</i>	OECD 201					
		Industry Data	2600 ^b	<i>Raphidocelis subcapitata</i>	OECD 201					
Vancomycin	8.00	Industry Data	9.60	<i>Synechococcus leopoliensis</i>	OECD 201					
		Guo et al., 2016	10.1 ⁱ	<i>Synechococcus leopoliensis</i>	OECD 201					
Viomycin	2.00	Bengtsson-Palme & Larsson, 2016						125	8.00	No change
		Industry Data	135	<i>Anabaena flos-aquae</i>	OECD 201	13.50	<i>A. flos-aquae</i> EC10 ÷ 10			
Virginiamycin	2.00	Bengtsson-Palme & Larsson, 2016				N/A		16	2.00	No change
		Industry Data	711	<i>Anabaena flos-aquae</i>	OECD 201	71.10	<i>A. flos-aquae</i> EC10 ÷ 10	16	2.00	No change

^a The size-adjusted lowest MIC rounded down to the closest concentration on the EUCAST testing scale.

^b The PNEC corresponds to the size-adjusted lowest MIC divided by an assessment factor of 10, then rounded down to the closest concentration on the EUCAST testing scale.

^c Geomean of most sensitive species used if EC10 or NOEC values were within one (1) order of magnitude; otherwise, lowest value used preferentially

^d Indicates reported value is a NOEC due to lack of dose-response observed in the study

^e Indicates value is a NOEC; unknown if dose-response was observed in the study

^f Reported value is a 24-hour EC10 due to significant decreases observed in measured test concentrations at 48- and 72-hours

^g *Anabaena flos-aquae* less sensitive in range-finder study (*Anabaena flos-aquae* EC50 > 500 µg/L)

^h EC10 value used preferentially instead of NOEC to calculate PNEC-ENV

ⁱ 24-hour study

^j 48-hour study

^k 96-hour study

^l Three repeat studies indicate value is an outlier; removed from PNEC derivation

^m New PNEC-MIC derived from EUCAST MIC distribution data following the method published by Bengtsson-Palme & Larsson, 2016

ⁿ Based on read-across from colistin (polymyxin E)

^o PNEC-MIC derived from industry MIC data which has been submitted to EUCAST (available upon request) following the method published by Bengtsson-Palme & Larsson, 2016.

^p Default PNEC-MIC from Vestel, Caldwell, Tell et al., 2022.