

Source for Publication	API ^j	EC ₁₀ (µg/L)	Species	Test Guideline / Reference	PNEC _{ENV} (µg/L)	PNEC _{MIC} (µg/L)	Lowest Value (µg/L)	PNEC _{ENV} Rationale	Revisions Since Last Version
Bengtsson-Palme & Larsson, 2016 Industry Data	Amikacin	187	<i>Anabaena flos-aquae</i>	OECD 201	18,70	16,00	16,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	New Industry data
Industry Data	Amoxicillin	5,7	<i>Anabaena flos-aquae</i>	OECD 201	0,57	0,25	0,25	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10 ^a	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					
Industry Data	Ampicillin	44,6	<i>Anabaena cylindrica</i>	OECD 201	0,60	0,25	0,25	<i>Cyanobium gracile</i> EC ₁₀ ÷ 10	No change
Le Page et al., 2019 Industry Data		8.3 ^h 13	<i>Anabaena flos-aquae</i> <i>Anabaena flos-aquae</i>	OECD 201 OECD 201					
Le Page et al., 2019 Le Page et al., 2019 Industry Data		18,7 5,9 91500	<i>Anabaena flos-aquae</i> <i>Cyanobium gracile</i> <i>Daphnia magna</i>	OECD 201 OECD 201 OECD 211					
Industry Data		94300	<i>Desmodesmus subspicatu</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 Le Page et al., 2019 Le Page et al., 2019 Le Page et al., 2019 Industry Data		36.5 ^h 38.8 ^g 16.2 ^g 19	<i>Synechocystis sp.</i> <i>Synechococcus elongates</i> <i>Synechococcus leopoliens</i> <i>Synechococcus leopoliens</i>	OECD 201 OECD 201 OECD 201 OECD 201					
Le Page et al., 2019 Industry Data		38 ^g 1250 ^b	<i>Synechococcus sp.</i> <i>Synechococcus leopoliens</i>	OECD 201 OECD 201	125,00	8,00	8,00	<i>Synechococcus leopolensis</i> NOEC ÷ 10	No change
Le Page et al., 2019 Le Page et al., 2019 Industry Data	Azithromycin	5 10.5 ^h 4,4	<i>Anabaena cylindrica</i> <i>Anabaena flos-aquae</i> <i>Ceriodaphnia dubia</i>	OECD 201 OECD 201 OECD 201	0,03	0,25	0,03	<i>Microcystis aeruginosa</i> EC ₁₀ ÷ 10	No change
Le Page et al., 2019 Le Page et al., 2019 Industry Data		4,8 3,2 0,29	<i>Cyanobium gracile</i> <i>Geminocystis herdmanii</i> <i>Microcystis aeruginosa</i>	OECD 201 OECD 201 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 Le Page et al., 2019 Le Page et al., 2019 Le Page et al., 2019 Le Page et al., 2019		8.6 ^h 4.4 ^g 8.7 ^g 17.7 ^g	<i>Synechocystis sp.</i> <i>Synechococcus elongates</i> <i>Synechococcus leopoliens</i> <i>Synechococcus sp.</i>	OECD 201 OECD 201 OECD 201 OECD 201					
Bengtsson-Palme & Larsson, 2016 Industry Data	Aztreonam				N/A	0,50	0,50	No industry data	No change
Industry Data	Bacitracin	1010 1300	<i>Anabaena flos-aquae</i> <i>Anabaena flos-aquae</i>	OECD 201 OECD 201	114,59	8,00	8,00	Geomean of <i>Anabaena flos-aquae</i> EC ₁₀	No change
Industry Data	Bedaquiline	0,8 ^b	<i>Anabaena flos-aquae</i>	OECD 201	0,08	N/A	0,08	<i>Anabaena flos-aquae</i> NOEC ÷ 10	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					
Bengtsson-Palme & Larsson, 2016	Benzylpenicillin				N/A	0,25	0,25	No industry data	No change

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Bengtsson-Palme & Larsson, 2016	Capreomycin				N/A	2,00	2,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Cefaclor				N/A	0,50	0,50	No industry data	No change
Industry Data	Cefadroxil	1,4	<i>Anabaena flos-aquae</i>	OECD 201	0,14	2,00	0,14	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Cefalonium	211	<i>Anabaena flos-aquae</i>	OECD 201	21,10	N/A	21,10	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		91000	<i>Raphidocelis subcapitata</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Cefaloridine				N/A	4,00	4,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Cefalothin				N/A	2,00	2,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Cefazolin				0,47	1,00	0,47	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	New Industry data
Industry Data		4,7	<i>Anabaena flos-aquae</i>	OECD 201					New Lowest value
Bengtsson-Palme & Larsson, 2016	Cefdinir				N/A	0,25	0,25	No industry data	No change
Industry Data	Cefepime	13	<i>Anabaena flos-aquae</i>	OECD 201	1,30	0,50	0,50	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		51000	<i>Raphidocelis subcapitata</i>						
Industry Data	Cefixime	6,04	<i>Anabaena flos-aquae</i>	OECD 201	0,60	0,06	0,06	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Cefoperazone				N/A	0,50	0,50	No industry data	No change
Le Page et al., 2019	Cefotaxime	1,2	<i>Anabaena cylindrica</i>	OECD 201	0,12	0,13	0,12	<i>Anabaena cylindrica</i> EC ₁₀ ÷ 10	No change
Industry Data		4,47	<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 sp.</i>	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 leopoliens</i>	OECD 201					
Le Page et al., 2019		16.2 ^g	<i>Synechococcus sp.</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Cefoxitin				N/A	8,00	8,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Cefpirome				N/A	0,06	0,06	No industry data	No change
Industry Data	Cefpodoxime proxetil	14,7	<i>Anabaena flos-aquae</i>	OECD 201	1,76	0,25	0,25	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10a	No change
Industry Data		21	<i>Anabaena flos-aquae</i>	OECD 201					
Industry Data	Cefquinome	16	<i>Anabaena flos-aquae</i>	OECD 201	1,60	N/A	1,60	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		52000	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Ceftaroline	1.2 ^c	<i>Anabaena flos-aquae</i>	OECD 201	0,12	0,06	0,06	<i>Anabaena flos-aquae</i> NOEC ÷ 10	No change
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					

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Industry Data	Ceftazidime	13	<i>Anabaena flos-aquae</i>	OECD 201	1,30	0,50	0,50	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
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					
Bengtsson-Palme & Larsson, 2016	Ceftibuten				N/A	0,25	0,25	No industry data	No change
Industry Data	Ceftiofur	4,03	<i>Anabaena flos-aquae</i>	OECD 201	0,40	0,06	0,06	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016									
Industry Data	Ceftobiprole	2,52 ^d	<i>Anabaena flos-aquae</i>	OECD 201	0,23	0,25	0,23	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		5600	<i>Brachydanio rerio</i>	OECD 210					
Industry Data		37000	<i>Daphnia magna</i>	OECD 211					
Industry Data	Ceftolozane	19	<i>Anabaena flos-aquae</i>	OECD 201	1,90	N/A	1,90	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		9600 ^b	<i>Daphnia magna</i>	OECD 211					
Industry Data		10000 ^b	<i>Pimephales promelas</i>	OECD 210					
Industry Data	Ceftriaxone	3,31	<i>Anabaena flos-aquae</i>	OECD 201	0,33	0,03	0,03	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		92000 ^b	<i>Daphnia magna</i>	OECD 211					
Industry Data		98800 ^b	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data		294	<i>Synechococcus leopoliens</i>	OECD 201					
Industry Data	Cefuroxime	17	<i>Anabaena flos-aquae</i>	OECD 201	1,70	0,50	0,50	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		91000	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Cephalexin	2,1	<i>Anabaena flos-aquae</i>	OECD 201	0,21	4,00	0,21	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		120000	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Cephradine	1,9	<i>Anabaena flos-aquae</i>	OECD 201	0,19	N/A	0,19	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Chloramphenicol				N/A	8,00	8,00	No industry data	No change
Industry Data	Chlortetracycline	50 ^e	<i>Raphidocelis subcapitata</i>	OECD 201	5,00	N/A	5,00	<i>Raphidocelis subcapitata</i> EC ₁₀ ÷ 10	No change
Ebert et al., 2011	Ciprofloxacin	4,47	<i>Anabaena flos-aquae</i>	OECD 201	0,45	0,06	0,06	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		8042 ^b	<i>Desmodesmus subspicatu</i>	OECD 201					
Baumann et al., 2015	Clarithromycin	2,6	<i>Anabaena flos-aquae</i>	OECD 201	0,25	0,25	0,25	<i>Raphidocelis subcapitata</i> NOEC ÷ 10	No change
Maletzki 2013		2,6	<i>Anabaena flos-aquae</i>	OECD 201					
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 subspicatu</i>	ISO 8692					
Watanabe et al. 2016		2,45 ^c	<i>Raphidocelis subcapitata</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Clinafloxacin				N/A	0,50	0,50	No industry data	No change
Industry Data	Clindamycin	8,1	<i>Anabaena flos-aquae</i>	OECD 201	0,10	1,00	0,10	<i>Raphidocelis subcapitata</i> EC ₁₀ ÷ 10	No change
Industry Data		0,98	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Cloxacillin	200	<i>Anabaena flos-aquae</i>	OECD 201	20,00	0,13	0,13	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Colistin (Polymyxin E)	90	<i>Anabaena flos-aquae</i>	OECD 201	9,00	2,00	2,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Daptomycin	17000	<i>Anabaena flos-aquae</i>	OECD 201	510,00	1,00	1,00	<i>Pimephales promelas</i> NOEC ÷ 10	No change

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Industry Data		34000	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data		5100 ^b	<i>Pimephales promelas</i>	OECD 210					
Industry Data		6800	<i>Daphnia magna</i>	OECD 211					
Industry Data	Delamanid	≥0.42 ^c	<i>Anabaena flos-aquae</i>	OECD 201	0,03	N/A	0,03	<i>Raphidocelis subcapitata</i> NOEC ÷ 10	No change
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					
Industry Data	Doripenem	4,6	<i>Anabaena flos-aquae</i>	OECD 201	0,46	0,13	0,13	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
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					
Industry Data	Doxycycline	251	<i>Anabaena flos-aquae</i>	OECD 201	25,10	2,00	2,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Enramycin	48	<i>Anabaena flos-aquae</i>	OECD 201	4,80	N/A	4,80	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		4200	<i>Raphidocelis subcapitata</i>	OECD 201					
Ebert et al., 2011	Enrofloxacin	19.1 ^b	<i>Anabaena flos-aquae</i>	OECD 201	1,91	0,06	0,06	<i>Anabaena flos-aquae</i> NOEC ÷ 10	No change
Industry Data		19.1 ^c	<i>Synechococcus leopoliens</i>	OECD 201					
Ebert et al., 2011		1140 ^b	<i>Desmodesmus subspicatus</i>	OECD 201					
Industry Data		1600	<i>Daphnia magna</i>	OECD 211					
Industry Data	Ertapenem	140	<i>Anabaena flos-aquae</i>	OECD 201	14,00	0,13	0,13	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
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					
Le Page et al., 2019	Erythromycin	22,3	<i>Anabaena cylindrica</i>	OECD 201	0,50	1,00	0,50	<i>Anabaena sp.</i> CPB4337 EC ₁₀ ÷ 10	No change
Gonzalez-Pleiter, et al., 2013		5	<i>Anabaena sp.</i> CPB4337	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 herdmanii</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 ^g	<i>Synechococcus elongates</i>	OECD 201					
Le Page et al., 2019		35 ^g	<i>Synechococcus leopoliens</i>	OECD 201					
Le Page et al., 2019		29.1 ^g	<i>Synechococcus sp.</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Ethambutol				75,00	2,00	2,00	<i>Anabaena flos-aquae</i> NOEC ÷ 10 ^b	New Industry data
Industry Data		750 ^b	<i>Anabaena flos-aquae</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Faropenem				N/A	0,02	0,02	No industry data	No change
Industry Data	Fidaxomicin	>18400	<i>Anabaena flos-aquae</i>	OECD 201	891,00	0,02	0,02	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		19600 ^b	<i>Daphnia magna</i>	OECD 211					
Industry Data		8910 ^b	<i>Pimephales promelas</i>	OECD 210					
Industry Data	Florfenicol	51 ^b	<i>Anabaena flos-aquae</i>	OECD 201	38,00	2,00	2,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10 ^f	No change
Industry Data		110 ^b	<i>Anabaena flos-aquae</i>	OECD 201					
Industry Data		380	<i>Anabaena flos-aquae</i>	OECD 201					

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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					
Industry Data	Flucloxacillin	268	<i>Anabaena flos-aquae</i>	OECD 201	26,80	N/A	26,80	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Flumequine				N/A	0,25	0,25	No industry data	No change
Industry Data	Fosfomicin	524	<i>Anabaena flos-aquae</i>	OECD 201	52,40	2,00	2,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Fusidic acid				N/A	0,50	0,50	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Framycetine	N/A	<i>Anabaena flos-aquae</i>	OECD 201	N/A	0,06	0,06	No industry data	No change
Testing on-going									
Bengtsson-Palme & Larsson, 2016	Gatifloxacin				N/A	0,13	0,13	No industry data	No change
Industry Data	Gamithromycin	2,42	<i>Anabaena flos-aquae</i>	OECD 201	0,24	N/A	0,24	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Gemifloxacin				N/A	0,06	0,06	No industry data	No change
Industry Data	Gentamicin	2	<i>Anabaena flos-aquae</i>	OECD 201	0,15	1,00	0,15	<i>Raphidocelis subcapitata</i> EC ₁₀ ÷ 10	No change
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					
Industry Data		65,9	<i>Synechococcus leopoliensis</i>	OECD 201					
Industry Data	Imipenem	4,1	<i>Anabaena flos-aquae</i>	OECD 201	0,41	0,13	0,13	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		74000	<i>Raphidocelis subcapitata</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Isoniazid				1290,00	0,13	0,13	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	
Industry Data		12900	<i>Anabaena flos-aquae</i>	OECD 201					No change
Industry Data	Kanamycin	11	<i>Anabaena flos-aquae</i>	OECD 201	1,05	2,00	1,05	<i>Synechococcus leopoliensis</i> EC ₁₀ ÷ 10	No change
Industry Data		6830	<i>Daphnia magna</i>	OECD 211					
Industry Data		4970	<i>Desmodesmus subspicatu</i>	OECD 201					
Industry Data		310	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data		10,5	<i>Synechococcus leopoliensis</i>	OECD 201					
Industry Data		10,5	<i>Synechococcus leopoliensis</i>	OECD 201					
Industry Data	Levofloxacin	5,22	<i>Anabaena flos-aquae</i>	OECD 201	1,52	0,25	0,25	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10 ^a	No change
Industry Data		44	<i>Anabaena flos-aquae</i>	OECD 201					
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					
Guo et al., 2016	Lincomycin	12.20 ⁱ	<i>Anabaena flos-aquae</i>	OECD 201	0,81	2,00	0,81	<i>Synechococcus leopoliensis</i> EC ₁₀ ÷ 10	No change
Industry Data		14,3	<i>Anabaena flos-aquae</i>	OECD 201					
Guo et al., 2016		91770 ^{b,i}	<i>Chlorella vulgaris</i>	OECD 201					
Guo et al., 2016		77.24 ⁱ	<i>Desmodesmus subspicatu</i>	OECD 201					
Guo et al., 2016		357.75 ⁱ	<i>Raphidocelis subcapitata</i>	OECD 201					

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Guo et al., 2016		8.13 ⁱ	<i>Synechococcus leopoliensis</i>	OECD 201					
Industry Data	Linezolid	35 ⁱ	<i>Anabaena flos-aquae</i>	OECD 201	3,50	8,00	3,50	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		9900	<i>Pimephales promelas</i>	OECD 210					
Industry Data		24000	<i>Daphnia magna</i>	OECD 211					
Bengtsson-Palme & Larsson, 2016	Loracarbef				N/A	2,00	2,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Mecillinam				N/A	1,00	1,00	No industry data	No change
Industry Data	Meropenem	15 ^c	<i>Anabaena flos-aquae</i>	OECD 201	1,50	0,06	0,06	<i>Anabaena flos-aquae</i> NOEC ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Metronidazole				N/A	0,13	0,13	No industry data	No change
Industry Data	Minocycline	11	<i>Anabaena flos-aquae</i>	OECD 201	1,1	1,00	1,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Moxifloxacin				N/A	0,13	0,13	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Mupirocin				N/A	0,25	0,25	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Nalidixic acid				N/A	16,00	16,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Narasin				N/A	0,50	0,50	No industry data	No change
Industry Data	Natamycin	7900	<i>Anabaena flos-aquae</i>	OECD 201	210,00	N/A	210,00	<i>Synechococcus leopoliensis</i> EC ₁₀ ÷ 10	No change
Industry Data		2100	<i>Synechococcus leopoliensis</i>	OECD 201					
Industry Data	Neomycin	0,3	<i>Anabaena flos-aquae</i>	OECD 201	0,03	2,00	0,03	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		2,2	<i>Raphidocelis subcapitata</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Netilmicin				N/A	0,50	0,50	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Nitrofurantoin				N/A	64,00	64,00	No industry data	No change
Gonzalez-Pleiter, et al., 2013	Norfloxacin	1200	<i>Anabaena sp. CPB4337</i>	OECD 201	120,00	0,50	0,50	<i>Anabaena sp. CPB4337</i> EC ₁₀ ÷ 10	No change
Gonzalez-Pleiter, et al., 2013		10900	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Novobiocin	200	<i>Anabaena flos-aquae</i>	OECD 201	20,00	N/A	20,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Ofloxacin	100 ^b	<i>Anabaena flos-aquae</i>	OECD 201	10,00	0,50	0,50	<i>Anabaena flos-aquae</i> NOEC ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Oxacillin				N/A	1,00	1,00	No industry data	No change
Kolar et al., 2014	Oxytetracycline	1500	<i>Anabaena flos-aquae</i>	OECD 201	47,00	0,50	0,50	<i>Raphidocelis subcapitata</i> EC ₁₀ ÷ 10	No change
Kolar et al., 2014		470	<i>Raphidocelis subcapitata</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Pefloxacin				N/A	8,00	8,00	No industry data	No change
Industry Data	Penicillin G	9,6	<i>Anabaena flos-aquae</i>	OECD 201	1,00	N/A	1,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Penicillin G Procaine	160	<i>Anabaena flos-aquae</i>	OECD 201	16,00	N/A	16,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		>100000	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Penicillin V	31,1	<i>Anabaena flos-aquae</i>	OECD 201	3,00	N/A	3,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		>7050	<i>Daphnia magna</i>	OECD 211					

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Bengtsson-Palme & Larsson, 2016	Phenoxymethylpenic				N/A	0,06	0,06	No industry data	No change
Industry Data	Piperacillin	43	<i>Anabaena flos-aquae</i>	OECD 201	4,30	0,50	0,50	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Polymixin B	0,57	<i>Anabaena flos-aquae</i>	OECD 201	0,06	N/A	0,06	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		7,6	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Pristinamycin	711	<i>Anabaena flos-aquae</i>	OECD 201	71,10	N/A	71,10	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Puromycin	310	<i>Daphnia magna</i>	OECD 211	31,00	N/A	31,00	<i>Daphnia magna</i> EC ₁₀ ÷ 10	No change
Industry Data		8650	<i>Synechococcus leopoliens</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Retapamulin				N/A	0,06	0,06	No industry data	No change
Industry Data	Rifampicin	40,6	<i>Anabaena flos-aquae</i>	OECD 201	4,06	0,06	0,06	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Rifamycin	9,92	<i>Anabaena flos-aquae</i>	OECD 201	1,00	N/A	1,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Rifaximin	1,11	<i>Anabaena flos-aquae</i>	OECD 201	0,11	N/A	0,11	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data	Roxithromycin	68,4	<i>Anabaena flos-aquae</i>	OECD 201	6,80	1,00	1,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Secnidazole				N/A	1,00	1,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Sparfloxacin				N/A	0,06	0,06	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Spectinomycin				N/A	32,00	32,00	No industry data	No change
Industry Data	Spiramycin	250	<i>Raphidocelis subcapitata</i>	OECD 201	1,09	0,50	0,50	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		10,9	<i>Synechococcus leopoliens</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Streptomycin				N/A	16,00	16,00	No industry data	No change
Industry Data	Sulfadiazine	7200	<i>Anabaena flos-aquae</i>	OECD 201	11,21	N/A	11,21	Geomean of <i>Raphidocelis subcapitata</i>	No change
Industry Data		30	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data		419	<i>Raphidocelis subcapitata</i>	OECD 201					
Ferrari et al., 2004	Sulfamethoxazole	90 ^{c,i}	<i>Raphidocelis subcapitata</i>	ISO 8692	6,6	16,00	6,6	<i>Synechococcus leopoliensis</i> EC ₁₀ ÷ 10	No change
Ferrari et al., 2004		5,9 ^c	<i>Synechococcus leopoliens</i>	ISO 8692					
Industry Data		66	<i>Synechococcus leopoliens</i>	OECD 201					
Industry Data		104	<i>Anabaena flos-aquae</i>	OECD 201					
Industry Data		400	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data		1730	<i>Daphnia magna</i>	OECD 211					
Industry Data	Sulfanilamide	2300	<i>Synechococcus leopoliensis</i>	OECD 201	230,00	N/A	230,00	<i>Synechococcus leopoliensis</i> EC ₁₀ ÷ 10	No change
		>34000	<i>Anabaena flos-aquae</i>	OECD 201					
		5800	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Tedizolid	98	<i>Anabaena flos-aquae</i>	OECD 201	3,20	N/A	3,20	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		600	<i>Daphnia magna</i>	OECD 211					
Industry Data		31,75	<i>Pimephales promelas</i>	OECD 210					
Industry Data	Teicoplanin	129	<i>Anabaena flos-aquae</i>	OECD 201	12,90	0,50	0,50	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Bengtsson-Palme & Larsson, 2016	Telithromycin	N/A	<i>Anabaena flos-aquae</i>	OECD 201	N/A	0,06	0,06	No industry data	No change
Testing on-going									
Gonzalez-Pleiter, et al., 2013	Tetracycline	2500	<i>Anabaena sp. CPB4337</i>	OECD 201	3,20	1,00	1,00	<i>Raphidocelis subcapitata</i> EC ₁₀ ÷ 10	No change
Gonzalez-Pleiter, et al., 2013		32	<i>Raphidocelis subcapitata</i>	OECD 201					

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Bengtsson-Palme & Larsson, 2016	Thiamphenicol				N/A	1,00	1,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Tiamulin				N/A	1,00	1,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Ticarcillin				N/A	8,00	8,00	No industry data	No change
Industry Data	Tigecycline	1	<i>Anabaena flos-aquae</i>	OECD 201	0,10	1,00	0,10	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
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					
Industry Data	Tildipirosin	4,2	<i>Anabaena flos-aquae</i>	OECD 201	0,42	N/A	0,42	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		47	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data	Tilmicosin	8	<i>Anabaena flos-aquae</i>	OECD 201	0,80	1,00	0,80	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		2600 ^c	<i>Raphidocelis subcapitata</i>	FDA 4.01					
Industry Data	Tobramycin	43	<i>Anabaena flos-aquae</i>	OECD 201	4,30	1,00	1,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		360 ^c	<i>Daphnia magna</i>	OECD 211					
Industry Data		10000 ^b	<i>Pimephales promelas</i>	OECD 210					
Industry Data	Trimethoprim	8 ^j	<i>Anabaena flos-aquae</i>	OECD 201	928,00	0,50	0,50	<i>Daahia maana</i> EC ₁₀ ÷ 10 ⁹	No change
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		26000,0	<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					
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 subspicatu</i>	OECD 201					
Industry Data		32000 ^b	<i>Raphidocelis subcapitata</i>	OECD 201					
Guo et al., 2016		63371.05 ^{b,i}	<i>Raphidocelis subcapitata</i>	OECD 201					
Kolar et al., 2014		65000	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data		68000	<i>Synechococcus leopoliensis</i>	OECD 201					
Guo et al., 2016		28300 ⁱ	<i>Synechococcus leopoliensis</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Trovafloxacin				N/A	0,03	0,03	No industry data	No change
Industry Data	Tulathromycin	0,35	<i>Anabaena flos-aquae</i>	OECD 201	0,04	N/A	0,04	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		14	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data		1,2	<i>Synechococcus leopoliensis</i>	OECD 201					
Guo et al., 2016	Tylosin	18.32 ^j	<i>Anabaena flos-aquae</i>	OECD 201	0,98	4,00	0,98	<i>Synechococcus leopoliensis</i> EC ₁₀ ÷ 10 ⁹	No change
Industry Data		47 ^c	<i>Anabaena flos-aquae</i>	OECD 201					
Guo et al., 2016		74390 ^{b,i}	<i>Chlorella vulgaris</i>	OECD 201					
Guo et al., 2016		3710.21 ⁱ	<i>Desmodesmus subspicatu</i>	OECD 201					

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Guo et al., 2016		833.65 ⁱ							
Industry Data		2600 ^b	<i>Raphidocelis subcapitata</i>	OECD 201					
Industry Data		9,60	<i>Synechococcus leopoliens</i>	OECD 201					
Guo et al., 2016		10.08 ⁱ	<i>Synechococcus leopoliens</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Vancomycin				14,00	8,00	8,00	<i>Anabaena flos-aquae</i> EC ₁₀ ÷ 10	No change
Industry Data		135	<i>Anabaena flos-aquae</i>	OECD 201					
Bengtsson-Palme & Larsson, 2016	Viomycin				N/A	2,00	2,00	No industry data	No change
Bengtsson-Palme & Larsson, 2016	Virginiamycin				N/A	2,00	2,00	No industry data	No change

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

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

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

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

^e *Anabaena flos-aquae* less sensitive in rangefinder study (*Anabaena flos-aquae* EC₅₀ > 500 µg/L)

^f EC₁₀ value used preferentially instead of NOEC to calculate PNEC_{ENV}

^g 24-hour study

^h 48-hour study

ⁱ 96-hour study

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