Table S2. Sources of data. Shown are the strain code, strain name, Aero. (aerobic status: A=aerobe, AN=anerobe, FA=Facultative anaerobe, microA=microaerobe, U=unknown), Troph. (trophic status: A=autotroph, H=heterotroph, M=mixotroph, U=unknown), Smp. (size of data set), $T_{\min}$ (minimum temperature for observed growth, C), T_{opt} (temperature of maximal observed growth, C), $T_{\max}$ (maximum temperature for observed growth, C), and Lit. (literature source).

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1	*Vibrio natriegens*	FA	H	1	37.0	37.0	37.0	[1]
2	*Desulfotomaculum sp.*	AN	A	1	65.0	65.0	65.0	[2]
3	*Geobacillus sp.*	FA	H	8	28.0	47.5	65.0	[3]
4	*Methanogenium thermophilicum*	AN	H	6	36.9	55.1	65.1	[4]
5	*Tetreutreptia pomquetensis*	A	M	4	-0.0	5.0	10.0	[5]
6	*Escherichia coli*	FA	H	20	14.4	37.6	47.5	[6]
7	*Caldicellulosiruptor hydrothermalis*	AN	H	1	65.0	65.0	65.0	[7]
8	*Caldicellulosiruptor kronotskyensis*	AN	H	1	70.0	70.0	70.0	[7]
9	*Caldicellulosiruptor kristjanssonii*	AN	H	1	78.0	78.0	78.0	[8]
10	*Caldicellulosiruptor acetigenus*	AN	H	7	50.1	64.9	78.1	[9]
11	*Caldicellulosiruptor bescii*	AN	H	13	37.0	77.9	89.9	[10]
12	*Caminibacter hydrogeniphilus*	AN	A	1	60.0	60.0	60.0	[11]
13	*Caminibacter mediatlanticus*	AN	A	1	55.0	55.0	55.0	[11]
14	*Caminibacter profundus*	FA	A	1	55.0	55.0	55.0	[11]
15	*Caminibacter profundus*	FA	A	1	55.0	55.0	55.0	[12]
16	*Noctiluca scintillans*	A	H	4	12.0	16.0	27.0	[13]
17	*Bacterial str.*	A	M	21	34.0	55.2	60.1	[14]
18	*Thermoanaerobaculum aquaticum*	AN	H	1	60.0	60.0	60.0	[15]
19	*Bacterial str.*	A	H	5	-9.4	5.0	5.0	[16]
20	*Thermococcoides shengliensis*	AN	H	1	65.0	65.0	65.0	[17]
21	*Mesoaciditoga lauensis*	AN	H	1	58.5	58.5	58.5	[18]
22	*Clostridium thermobutyricum*	AN	H	1	55.0	55.0	55.0	[19]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
23	*Clostridium thermobutyricum*	AN	H	36	26.2	53.5	60.0	[20]
24	*Vibrio sp.*	FA	H	5	15.0	30.0	35.0	[21]
25	*Desulfitobacterium dehalogenans*	AN	H	15	17.1	38.1	44.9	[22]
26	*Clostridium thermocellum*	AN	H	2	60.0	60.0	60.0	[23]
27	*Macrotrachela quadricornifra*	A	H	3	16.0	24.0	24.0	[24]
28	*Macrotrachela quadricornifra*	A	H	3	16.0	24.0	24.0	[24]
29	*Macrotrachela quadricornifra*	A	H	3	16.0	24.0	24.0	[24]
30	*Macrotrachela quadricornifra*	A	H	3	16.0	24.0	24.0	[24]
31	*Macrotrachela quadricornifra*	A	H	3	16.0	24.0	24.0	[24]
32	*Lactococcus paracasei*	FA	H	35	5.9	32.9	39.9	[25]
33	*Streptococcus thermophilus*	FA	H	22	29.8	46.0	51.0	[25]
34	*Clostridium perfringens*	AN	H	11	19.0	49.0	49.0	[26]
35	*Acroperus harpae*	A	H	4	5.0	20.0	20.0	[27]
36	*Alona affinis*	A	H	4	5.0	20.0	20.0	[27]
37	*Chydorus sphaericus*	A	H	4	5.0	20.0	20.0	[27]
38	*Eurycercus lamellatus*	A	H	4	5.0	20.0	20.0	[27]
39	*Graptoleberis testudinaria*	A	H	4	5.0	20.0	20.0	[27]
40	*Pleuroxus uncinatus*	A	H	4	5.0	20.0	20.0	[27]
41	*Sida crystallina*	A	H	3	10.0	20.0	20.0	[27]
42	*Simocephalus vetulus*	A	H	3	10.0	20.0	20.0	[27]
43	*Clostridium perfringens*	AN	H	29	13.0	43.0	51.0	[28]
44	*Clostridium perfringens*	AN	H	28	13.0	40.0	51.0	[28]
45	*Clostridium perfringens*	AN	H	31	10.0	43.0	51.1	[28]
46	*Desulfuromonas acetoxidans*	AN	H	1	30.0	30.0	30.0	[29]
47	*Sulfolobus acidocaldarius*	A	M	1	70.0	70.0	70.0	[30]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
48	*Methanothermus sociabilis*	AN	A	1	80.0	80.0	80.0	[31]
49	*Methanothermus sociabilis*	AN	A	1	88.0	88.0	88.0	[31]
50	*Methanothermus sociabilis*	AN	A	1	77.0	77.0	77.0	[31]
51	*Archaeoglobus fulgidus*	AN	M	1	76.0	76.0	76.0	[32]
52	*Ceriodaphnia dubia*	A	H	4	10.0	25.0	25.0	[33]
53	*Plasmodium falciparum*	A	H	1	37.0	37.0	37.0	[34]
54	*Clostridium perfringens*	AN	H	2	41.0	41.0	45.0	[35]
55	*Clostridium perfringens*	AN	H	1	45.0	45.0	45.0	[35]
56	*Clostridium perfringens*	AN	H	2	41.0	45.0	45.0	[35]
57	*Clostridium perfringens*	AN	H	2	41.0	45.0	45.0	[35]
58	*Clostridium termitidis*	AN	H	8	20.1	37.6	45.0	[36]
59	*Methanolobus zinderi*	AN	H	6	24.9	42.0	50.1	[37]
60	*Paraphysomonas imperforata*	A	H	4	14.0	26.0	26.0	[38]
61	*Monas sp.*	A	H	4	3.0	23.5	30.0	[39]
62	*Desulfovibrio cuneatus*	FA	H	6	4.0	27.9	32.9	[40]
63	*Desulfovibrio cuneatus*	FA	H	5	3.9	28.0	32.8	[40]
64	*Desulfovibrio litoralis*	FA	H	5	4.0	27.9	33.0	[40]
65	*Candida sphaerica*	FA	H	10	3.8	31.8	36.8	[41]
66	*Kluyveromyces blattae*	FA	H	9	7.8	31.9	37.1	[41]
67	*Kluyveromyces thermotolerans*	FA	H	11	3.7	34.5	40.7	[41]
68	*Candia sphaerica*	FA	H	10	3.8	31.8	37.0	[41]
69	*Kluyveromyces battae*	FA	H	10	7.9	31.7	40.6	[41]
70	*Kluyveromyces thermotolerans*	FA	H	11	3.5	34.7	40.8	[41]
71	*Methanofollis aquaemaris*	AN	H	4	19.9	36.9	36.9	[42]
72	*Methanofollis aquaemaris*	AN	H	6	19.9	36.6	42.6	[42]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
73	*Halomonas kenyensis*	FA	H	8	11.9	40.9	48.6	[43]
74	*Halomonas mongoliensis*	FA	H	7	15.9	40.5	51.0	[43]
75	*Methanoculleus chikugoensis*	AN	H	5	15.1	25.3	40.2	[44]
76	*Methanoculleus palmolei*	AN	H	6	25.9	40.0	49.0	[45]
77	*Marinobacter alkaliphilus*	FA	H	7	10.6	30.1	45.1	[46]
78	*Clostridium difficile*	AN	H	1	37.0	37.0	37.0	[47]
79	*Cyanobacterial str.*	A	A	5	5.8	25.3	25.3	[48]
80	*Cyanobacterial str.*	A	A	5	4.4	19.9	25.1	[48]
81	*Cyanobacterial str.*	A	A	5	5.3	25.3	30.2	[48]
82	*Cyanobacterial str.*	A	A	5	4.9	14.7	25.3	[48]
83	*Cyanobacterial str.*	A	A	6	5.0	14.8	29.8	[48]
84	*Cyanobacterial str.*	A	A	6	4.3	24.3	29.9	[48]
85	*Cyanobacterial str.*	A	A	5	10.0	15.1	30.1	[48]
86	*Cyanobacterial str.*	A	A	5	10.9	16.2	30.8	[48]
87	*Cyanobacterial str.*	A	A	5	5.2	25.1	25.1	[48]
88	*Cyanobacterial str.*	A	A	5	4.3	19.1	24.5	[48]
89	*Cyanobacterial str.*	A	A	6	6.0	21.5	31.3	[48]
90	*Cyanobacterial str.*	A	A	4	15.0	19.9	29.9	[48]
91	*Cyanobacterial str.*	A	A	3	9.4	14.4	19.4	[48]
92	*Cyanobacterial str.*	A	A	6	4.7	14.5	29.9	[48]
93	*Cyanobacterial str.*	A	A	4	10.1	24.8	24.8	[48]
94	*Cyanobacterial str.*	A	A	5	10.2	15.5	35.4	[48]
95	*Cyanobacterial str.*	A	A	5	5.1	15.4	30.4	[48]
96	*Cyanobacterial str.*	A	A	5	5.0	14.7	24.7	[48]
97	*Cyanobacterial str.*	A	A	5	4.7	14.6	24.8	[48]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
98	*Cyanobacterial str.*	A	A	5	6.5	16.9	26.8	[48]
99	*Cyanobacterial str.*	A	A	4	9.6	14.0	24.6	[48]
100	*Cyanobacterial str.*	A	A	6	4.4	24.4	29.4	[48]
101	*Cyanobacterial str.*	A	A	4	9.5	19.7	24.9	[48]
102	*Cyanobacterial str.*	A	A	4	10.1	19.5	24.8	[48]
103	*Hyadaphis foeniculi*	A	H	4	15.0	28.0	28.0	[49]
104	*Aspergillus nidulans*	A	H	5	20.0	37.0	37.0	[50]
105	*Aspergillus nidulans*	A	H	4	20.0	37.0	37.0	[50]
106	*Mucor hiemalis*	A	H	2	25.0	25.0	25.0	[50]
107	*Penicillium chrysogenum*	A	H	2	25.0	25.0	25.0	[50]
108	*Aspergillus nidulans*	A	H	1	25.0	25.0	25.0	[51]
109	*Geotrichum candidum*	A	H	1	25.0	25.0	25.0	[51]
110	*Mucor hiemalis*	A	H	1	25.0	25.0	25.0	[51]
111	*Neurospora crassa*	A	H	2	25.0	37.0	37.0	[51]
112	*Penecillum chrysogenum*	A	H	1	25.0	25.0	25.0	[51]
113	*Neurospora spora*	A	H	1	25.0	25.0	25.0	[52]
114	*Neurospora spora*	A	H	1	25.0	25.0	25.0	[52]
115	*Neurospora spora*	A	H	1	25.0	25.0	25.0	[52]
116	*Neurospora spora*	A	H	1	25.0	25.0	25.0	[52]
117	*Streptococcus pneumoniae*	A	H	3	37.0	37.0	37.0	[53]
118	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
119	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
120	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
121	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
122	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
123	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
124	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
125	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
126	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
127	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
128	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
129	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
130	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
131	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
132	*Streptococcus xylosus*	A	H	1	37.0	37.0	37.0	[54]
133	*Ammoniibacillus agariperforans*	A	H	1	60.0	60.0	60.0	[55]
134	*Thiohalobacter thiocyanaticus*	AN	A	2	30.0	30.0	30.0	[56]
135	*Allisonella histaminiformans*	AN	H	1	39.0	39.0	39.0	[57]
136	*Mus musculus*	A	H	6	28.0	37.0	40.0	[58]
137	*Methanococcus deltae*	AN	H	5	25.3	36.9	56.3	[59]
138	*Methanococcus olentangyi*	AN	H	4	25.3	37.1	44.0	[59]
139	*Halobacteroides halobius*	AN	H	4	30.0	40.8	44.9	[60]
140	*Halobacteroides halobius*	AN	H	4	30.0	36.9	44.9	[60]
141	*Escherichia coli*	FA	H	20	8.0	39.3	46.0	[61]
142	*Pseudomonas aeruginosa*	A	H	10	8.0	40.0	45.0	[61]
143	*Pseudomonas fluorescens*	A	H	16	0.0	32.0	34.0	[61]
144	*Psychrophilic pseudomonads*	A	H	16	0.0	30.0	32.0	[61]
145	*Psychrophilic pseudomonads*	A	H	16	0.0	28.0	30.0	[61]
146	*Synechococcus lividus*	A	A	11	54.0	65.0	72.0	[62]
147	*Escherichia coli*	FA	H	17	4.1	38.7	38.7	[63]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
148	*Pseudomonas sp.*	A	H	14	4.1	27.8	34.6	[63]
149	*Xanthomonas campestris*	A	H	6	9.9	29.9	34.9	[64]
150	*Xylella fastidiosa*	A	H	8	17.9	27.9	31.9	[64]
151	*Citrobacter intermedius*	AN	H	10	22.1	38.1	40.2	[65]
152	*Sporohalobacter marismortui*	AN	H	7	25.1	41.6	52.0	[66]
153	*Halobacteroides acetoethylicus*	AN	H	4	25.8	33.5	37.0	[67]
154	*Sporohalobacter lortetii*	AN	H	10	24.6	44.4	52.9	[68]
155	*Haloincola saccharolytica*	AN	H	1	37.0	37.0	37.0	[69]
156	*Phaeocystis globosa*	A	A	4	1.5	12.0	12.0	[70]
157	*Phaeocystis pouchetii*	A	A	6	6.0	14.1	14.1	[70]
158	*Phaeocystis pouchetii*	A	A	5	4.1	20.1	20.1	[70]
159	*Phaeocystis pouchetii*	A	A	5	6.1	14.1	18.0	[70]
160	*Methanoplanus petrolearius*	AN	H	1	37.0	37.0	37.0	[71]
161	*Acarus siro*	A	H	21	10.2	25.0	35.0	[72]
162	*Aleuroglyphus ovatus*	A	H	56	10.0	25.1	35.0	[72]
163	*Tyrophagus putrescentiae*	A	H	52	9.9	27.4	35.0	[72]
164	*Methanoculleus receptaculi*	AN	H	1	50.0	50.0	50.0	[73]
165	*Butyribacterium methylotrophicum*	AN	H	1	38.5	38.5	38.5	[74]
166	*Methermicoccus shengliensis*	AN	H	1	65.0	65.0	65.0	[75]
167	*Methanoculleus oldenburgensis*	AN	H	1	45.0	45.0	45.0	[76]
168	*Diaphorina citri*	A	H	5	15.0	28.0	30.0	[77]
169	*Haloincola saccharolytica*	AN	H	1	40.0	40.0	40.0	[78]
170	*Halococcus salifodinae*	A	H	1	37.0	37.0	37.0	[79]
171	*Halothemothrix orenii*	AN	H	1	60.0	60.0	60.0	[80]
172	*Cellulomonas sp.*	A	H	17	6.4	24.1	28.4	[81]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
173	*Salmonella typhimurium*	FA	H	17	6.7	33.0	33.0	[81]
174	*Clostridium botulinum*	AN	H	9	12.5	37.0	45.0	[82]
175	*Clostridium botulinum*	AN	H	9	12.5	37.0	45.0	[82]
176	*Desulfofaba gelida*	AN	A	10	-1.9	7.5	7.6	[83]
177	*Desulfofrigus fragile*	AN	A	18	-1.9	18.0	23.5	[83]
178	*Desulfofrigus marinus*	AN	A	16	-1.7	9.7	13.8	[83]
179	*Desulfotalea arctica*	AN	A	18	-1.7	18.2	23.5	[83]
180	*Desulfotalea psychrophila*	AN	A	39	-1.8	9.9	18.1	[83]
181	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
182	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
183	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
184	*Mucor racemosus*	A	H	5	10.0	15.0	30.0	[84]
185	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
186	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
187	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
188	*Mucor racemosus*	A	H	5	10.0	15.0	30.0	[84]
189	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
190	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
191	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
192	*Mucor racemosus*	A	H	5	10.0	15.0	30.0	[84]
193	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
194	*Mucor racemosus*	A	H	5	10.0	20.0	30.0	[84]
195	*Mucor racemosus*	A	H	5	10.0	25.0	30.0	[84]
196	*Mucor racemosus*	A	H	5	10.0	15.0	30.0	[84]
197	*Pseudomonas aeruginosa*	A	H	14	20.5	42.3	46.2	[85]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
198	*Pseudomonas fluorescens*	A	H	15	19.3	38.7	45.3	[85]
199	*Serratia marcescens*	FA	U	10	22.0	33.3	41.0	[85]
200	*Vibrio marinus*	FA	H	6	7.3	13.7	18.6	[85]
201	*Vibrio marinus*	FA	H	8	9.9	23.1	23.1	[85]
202	*Vibrio psychroerythrus*	FA	H	5	6.0	13.9	13.9	[85]
203	*Bacillus coagulans*	FA	H	18	27.9	51.6	62.4	[85]
204	*Bacillus megaterium*	FA	H	14	20.7	40.4	46.5	[85]
205	*Bacillus subtilis*	FA	H	14	19.8	36.1	50.2	[85]
206	*Geobacillus stearothermophilus*	FA	A	14	45.3	68.4	70.7	[85]
207	*Thermus aquaticus*	A	H	14	45.5	70.8	76.7	[85]
208	*Escherichia coli*	FA	H	15	20.5	38.5	48.2	[85]
209	*Prochlorococcus marinus*	A	A	6	12.7	23.6	23.6	[86]
210	*Synechococcus sp.*	A	A	9	14.6	27.9	32.2	[86]
211	*Thermomarinilinea lacunofontalis*	A	A	6	37.1	50.2	60.2	[87]
212	*Marinitoga okinawensis*	AN	H	9	30.1	55.1	70.2	[88]
213	*Oceanotoga teriensis*	AN	H	1	56.5	56.5	56.5	[89]
214	*Marinitoga hydrogenitolerans*	AN	H	1	60.0	60.0	60.0	[90]
215	*Marinitoga litoralis*	AN	H	1	60.0	60.0	60.0	[91]
216	*Pyrococcus yayanosii*	AN	H	1	98.0	98.0	98.0	[92]
217	*Thermotoga caldifontis*	AN	H	8	54.8	69.5	84.8	[93]
218	*Thermotoga profunda*	AN	H	6	50.1	60.3	72.1	[93]
219	*Kosmotoga olearia*	AN	H	1	65.0	65.0	65.0	[94]
220	*Kosmotoga olearia*	AN	H	2	37.0	65.0	65.0	[94]
221	*Haloanaerobium praevalens*	AN	H	10	4.7	37.1	59.8	[95]
222	*Mesotoga prima*	AN	H	1	37.0	37.0	37.0	[96]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
223	*Marinitoga camini*	AN	H	1	55.0	55.0	55.0	[97]
224	*Pyrolobus fumarii*	FA	A	7	96.2	105.6	111.7	[98]
225	*Monascus ruber*	FA	H	5	20.0	35.0	40.0	[99]
226	*Monascus ruber*	FA	H	5	20.0	35.0	40.0	[99]
227	*Monascus ruber*	FA	H	5	20.0	35.0	40.0	[99]
228	*Monascus ruber*	FA	H	4	25.0	35.0	40.0	[99]
229	*Monascus ruber*	FA	H	5	20.0	35.0	40.0	[99]
230	*Monascus ruber*	FA	H	5	20.0	40.0	40.0	[99]
231	*Monascus ruber*	FA	H	5	20.0	40.0	40.0	[99]
232	*Monascus ruber*	FA	H	4	25.0	35.0	40.0	[99]
233	*Monascus ruber*	FA	H	5	20.0	30.0	40.0	[99]
234	*Monascus ruber*	FA	H	5	20.0	35.0	40.0	[99]
235	*Monascus ruber*	FA	H	5	20.0	40.0	40.0	[99]
236	*Monascus ruber*	FA	H	4	25.0	35.0	40.0	[99]
237	*Monascus ruber*	FA	H	5	20.0	35.0	40.0	[99]
238	*Monascus ruber*	FA	H	5	20.0	40.0	40.0	[99]
239	*Monascus ruber*	FA	H	3	25.0	40.0	40.0	[99]
240	*Monascus ruber*	FA	H	4	25.0	35.0	40.0	[99]
241	*Kosmotoga pacifica*	AN	H	1	70.0	70.0	70.0	[100]
242	*Geminicoccus roseus*	A	H	1	32.5	32.5	32.5	[101]
243	*Thermobacteroides leptospartum*	AN	H	1	60.0	60.0	60.0	[102]
244	*Thermoanaerobacterium aciditolerans*	AN	H	1	60.0	60.0	60.0	[103]
245	*Calditerricola satsumensis*	A	H	1	78.0	78.0	78.0	[104]
246	*Dechloromonas denitrificans*	FA	H	1	30.0	30.0	30.0	[105]
247	*Paenibacillus anaericanus*	FA	H	1	32.5	32.5	32.5	[105]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
248	*Paenibacillus terrae*	FA	H	1	35.0	35.0	35.0	[105]
249	*Flavobacterium denitrificans*	FA	H	1	25.0	25.0	25.0	[105]
250	*Enterococcus faecalis*	FA	H	2	25.0	37.0	37.0	[106]
251	*Enterococcus faecalis*	FA	H	2	25.0	37.0	37.0	[106]
252	*Enterococcus faecalis*	FA	H	2	25.0	37.0	37.0	[106]
253	*Enterococcus faecalis*	FA	H	2	25.0	37.0	37.0	[106]
254	*Enterococcus faecium*	FA	H	2	25.0	37.0	37.0	[106]
255	*Enterococcus faecium*	FA	H	2	25.0	37.0	37.0	[106]
256	*Enterococcus faecium*	FA	H	2	25.0	37.0	37.0	[106]
257	*Enterococcus faecium*	FA	H	2	25.0	37.0	37.0	[106]
258	*Enterococcus sp.*	FA	H	2	25.0	37.0	37.0	[106]
259	*Enterococcus sp.*	FA	H	2	25.0	37.0	37.0	[106]
260	*Enterococcus sp.*	FA	H	2	25.0	37.0	37.0	[106]
261	*Enterococcus sp.*	FA	H	2	25.0	37.0	37.0	[106]
262	*Saccharomyces rouxii*	FA	H	5	25.0	32.0	40.1	[107]
263	*Saccharomyces rouxii*	FA	H	6	22.0	32.1	40.1	[107]
264	*Saccharomyces rouxii*	FA	H	4	22.0	28.0	32.0	[107]
265	*Clostridium tagluense*	AN	H	6	3.9	15.1	27.8	[108]
266	*Clostridium jejuense*	AN	H	1	30.0	30.0	30.0	[109]
267	*Caloramator boliviensis*	AN	H	4	45.0	60.0	60.0	[110]
268	*Magnetovibrio blakemorei*	microA	A	1	27.0	27.0	27.0	[111]
269	*Thiofaba tepidiphila*	AN	A	1	45.0	45.0	45.0	[112]
270	*Clydonella rosenfieldi*	A	H	4	5.0	20.0	20.0	[113]
271	*Platyamoeba sp.*	A	H	4	5.0	20.0	20.0	[113]
272	*Vannella caledonica*	A	H	4	5.0	20.0	20.0	[113]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
273	*Vannella sp.*	A	H	4	5.0	20.0	20.0	[113]
274	*Vahlkampfia baltica*	A	H	4	5.0	20.0	20.0	[113]
275	*Vahlkampfia damariscottae*	A	H	4	5.0	20.0	20.0	[113]
276	*Dactylamoeba sp.*	A	H	3	10.0	20.0	20.0	[113]
277	*Paraflabellula reniformis*	A	H	4	5.0	20.0	20.0	[113]
278	*Rhizamoeba sp.*	A	H	4	5.0	20.0	20.0	[113]
279	*Stereomyxa ramosa*	A	H	4	5.0	15.0	20.0	[113]
280	*Sulfurivirga caldicuralii*	microA	A	5	37.0	50.1	59.9	[114]
281	*Sulfurivirga caldicuralii*	microA	A	5	37.1	50.1	60.2	[114]
282	*Staphylococcus xylosus*	FA	H	10	19.6	37.2	42.8	[115]
283	*Staphylococcus xylosus*	FA	H	11	13.8	35.6	43.1	[115]
284	*Staphylococcus xylosus*	FA	H	21	8.9	37.6	43.0	[115]
285	*Staphylococcus xylosus*	FA	H	17	11.5	36.6	42.0	[115]
286	*Staphylococcus xylosus*	FA	H	18	11.8	38.4	42.1	[115]
287	*Staphylococcus xylosus*	FA	H	19	11.4	36.4	41.6	[115]
288	*Archaebacterial str.*	U	U	5	85.1	95.0	100.0	[116]
289	*Archaebacterial str.*	U	U	2	95.1	95.1	100.0	[116]
290	*Archaebacterial str.*	U	U	5	85.1	90.1	100.0	[116]
291	*Clostridium drakei*	AN	A	1	30.0	30.0	30.0	[117]
292	*Gracilibacter thermotolerans*	AN	H	1	42.0	42.0	42.0	[118]
293	*Thermoanaerobacter pentosaceus*	AN	H	1	70.0	70.0	70.0	[119]
294	*Natranaerobius thermophilus*	AN	H	1	53.0	53.0	53.0	[120]
295	*Methanococus aecolicus*	AN	A	1	30.0	30.0	30.0	[121]
296	*Methanococus deltae*	AN	A	1	30.0	30.0	30.0	[121]
297	*Methanococus maripaludis*	AN	A	1	30.0	30.0	30.0	[121]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
298	*Methanococus sp.(A1)*	AN	A	1	30.0	30.0	30.0	[121]
299	*Methanococus sp.(A4)*	AN	A	1	30.0	30.0	30.0	[121]
300	*Methanococus sp.(A5)*	AN	A	1	30.0	30.0	30.0	[121]
301	*Methanococus sp.(C10)*	AN	A	1	30.0	30.0	30.0	[121]
302	*Methanococus sp.(C11)*	AN	A	1	30.0	30.0	30.0	[121]
303	*Methanococus sp.(C12)*	AN	A	1	30.0	30.0	30.0	[121]
304	*Methanococus sp.(C13)*	AN	A	1	30.0	30.0	30.0	[121]
305	*Methanococus sp.(C14)*	AN	A	1	30.0	30.0	30.0	[121]
306	*Methanococus sp.(C5)*	AN	A	1	30.0	30.0	30.0	[121]
307	*Methanococus sp.(C6)*	AN	A	1	30.0	30.0	30.0	[121]
308	*Methanococus sp.(C7)*	AN	A	1	30.0	30.0	30.0	[121]
309	*Methanococus sp.(C8)*	AN	A	1	30.0	30.0	30.0	[121]
310	*Methanococus sp.(C9)*	AN	A	1	30.0	30.0	30.0	[121]
311	*Methanococus sp.(D1)*	AN	A	1	30.0	30.0	30.0	[121]
312	*Methanococus sp.(S1)*	AN	A	1	30.0	30.0	30.0	[121]
313	*Methanococus sp.(S2)*	AN	A	1	30.0	30.0	30.0	[121]
314	*Methanococus vannielii*	AN	A	1	30.0	30.0	30.0	[121]
315	*Acidithiobacillus ferridurans*	FA	A	9	19.7	29.0	37.8	[122]
316	*Clostridium mayombei*	AN	A	1	30.0	30.0	30.0	[123]
317	*Clostridium acidisoli*	AN	H	1	30.0	30.0	30.0	[124]
318	*Clostridium akagii*	AN	H	1	25.0	25.0	25.0	[124]
319	*Chaetomium cellulolyticum*	A	H	1	37.0	37.0	37.0	[125]
320	*Clostridium thermoaceticum*	AN	H	1	58.0	58.0	58.0	[126]
321	*Clostridium thermocellum*	AN	H	1	45.0	45.0	45.0	[127]
322	*Clostridium thermocellum*	AN	H	1	45.0	45.0	45.0	[127]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
323	*Clostridium thermocellum*	AN	H	1	45.0	45.0	45.0	[127]
324	*Clostridium thermocellum*	AN	H	1	45.0	45.0	45.0	[127]
325	*Clostridium thermocellum*	AN	H	1	45.0	45.0	45.0	[127]
326	*Clostridium thermocellum*	AN	H	1	45.0	45.0	45.0	[127]
327	*Clostridium thermocellum*	AN	H	1	45.0	45.0	45.0	[127]
328	*Strain SF1*	AN	H	5	20.0	37.1	40.1	[128]
329	*Bacterial str.*	microA	H	1	32.5	32.5	32.5	[129]
330	*Geosporobacter subterraneus*	AN	H	1	42.0	42.0	42.0	[130]
331	*Bacillus sp.(LCB41)*	A	H	3	45.0	45.0	60.0	[131]
332	*Thermus sp.*	A	H	5	60.0	70.0	80.0	[132]
333	*Clostridium sp.*	AN	H	1	37.0	37.0	37.0	[133]
334	*Caminibacter hydrogeniphilus*	AN	A	5	50.0	60.0	69.9	[134]
335	*Pyrococcus glycovorans*	AN	H	13	75.0	95.5	103.6	[135]
336	*Desulfurococcus strain*	AN	H	7	54.6	84.7	90.0	[136]
337	*Desulfurococcus strain*	AN	H	8	54.7	89.9	94.6	[136]
338	*Caloranaerobacter azorensis*	AN	H	5	45.0	64.7	64.7	[137]
339	*Anaeromyxobacter dehalogenans*	microA	H	1	30.0	30.0	30.0	[138]
340	*Shewanella oneidensis*	FA	H	2	3.0	22.0	22.0	[139]
341	*Tetranychus evansi*	A	H	5	15.0	30.0	35.0	[140]
342	*Tetranychus evansi*	A	H	5	15.0	35.0	35.0	[140]
343	*Tetranychus evansi*	A	H	5	15.0	30.0	35.0	[140]
344	*Tetranychus evansi*	A	H	5	15.0	35.0	35.0	[140]
345	*Tetranychus evansi*	A	H	5	15.0	35.0	35.0	[140]
346	*Tetranychus evansi*	A	H	5	15.0	35.0	35.0	[140]
347	*Tetranychus evansi*	A	H	5	15.0	35.0	35.0	[140]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
348	*Bacterial str.*	AN	H	1	30.0	30.0	30.0	[141]
349	*Spirochaeta perfilievii*	AN	H	1	28.0	28.0	28.0	[142]
350	*Spirochaeta americana*	AN	H	1	37.0	37.0	37.0	[143]
351	*Exilispira thermophila*	AN	H	1	50.0	50.0	50.0	[144]
352	*Spirochaeta cellobiosiphila*	FA	H	1	37.0	37.0	37.0	[145]
353	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
354	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
355	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
356	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
357	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
358	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
359	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
360	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
361	*Spirochaeta coccoides*	FA	H	1	30.0	30.0	30.0	[146]
362	*Alkalithermophilic Bacteria*	A	H	7	30.0	40.1	58.0	[147]
363	*Alkalithermophilic Bacteria*	A	H	7	30.1	45.9	57.9	[147]
364	*Alkalithermophilic Bacteria*	A	H	7	30.0	38.1	58.0	[147]
365	*Alkalithermophilic Bacteria*	A	H	7	30.0	40.0	58.0	[147]
366	*Alkalithermophilic Bacteria*	A	H	6	30.0	45.0	55.0	[147]
367	*Alkalithermophilic Bacteria*	A	H	6	29.9	45.0	55.0	[147]
368	*Alkalithermophilic Bacteria*	A	H	5	35.0	50.1	55.1	[147]
369	*Alkalithermophilic Bacteria*	A	H	6	30.0	40.0	55.2	[147]
370	*Pseudoalteromonas antarctica*	A	H	11	5.0	17.5	30.0	[148]
371	*Spirochaeta caldaria*	AN	H	1	50.0	50.0	50.0	[149]
372	*Acetonema longum*	AN	H	1	31.5	31.5	31.5	[150]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
373	*Clostridium grantii*	AN	H	1	30.0	30.0	30.0	[151]
374	*Heliobacterium mobilis*	AN	H	4	23.0	40.1	40.1	[152]
375	*Heliobacterium modesticaldum*	AN	H	9	23.1	52.0	55.0	[152]
376	*Bacillus tusciae*	A	A	1	55.0	55.0	55.0	[153]
377	*Eubacterium angustum*	AN	H	1	37.0	37.0	37.0	[154]
378	*Flexistipes sinusarabici*	AN	H	7	34.1	50.0	52.0	[155]
379	*Fervidobacterium nodosum*	AN	H	1	67.5	67.5	67.5	[156]
380	*Desulfobacterium autotrophicum*	AN	A	1	26.0	26.0	26.0	[157]
381	*Acidithiobacillus ferrivorans*	FA	A	7	20.0	30.0	35.0	[158]
382	*Clostridium alkalicellum*	AN	H	1	37.5	37.5	37.5	[159]
383	*Symbiobacterium toebii*	microA	H	6	45.2	60.3	69.9	[160]
384	*Clostridium magnum*	AN	H	1	31.0	31.0	31.0	[161]
385	*Artemia franciscana*	A	H	2	24.0	24.0	30.0	[162]
386	*Artemia franciscana*	A	H	2	15.0	15.0	24.0	[162]
387	*Artemia parthenogenetica*	A	H	1	24.0	24.0	24.0	[162]
388	*Artemia parthenogenetica*	A	H	1	24.0	24.0	24.0	[162]
389	*Artemia persimilis*	A	H	2	24.0	24.0	30.0	[162]
390	*Artemia persimilis*	A	H	3	15.0	30.0	30.0	[162]
391	*Artemia persimilis*	A	H	1	15.0	15.0	15.0	[162]
392	*Artemia salina*	A	H	2	15.0	24.0	24.0	[162]
393	*Artemia salina*	A	H	2	15.0	24.0	24.0	[162]
394	*Artemia sinica*	A	H	2	24.0	30.0	30.0	[162]
395	*Artemia sinica*	A	H	1	24.0	24.0	24.0	[162]
396	*Psychrobacter glacincola*	A	H	13	0.5	14.4	21.1	[163]
397	*Methanobacterium thermoautotrophicum*	AN	A	7	40.0	70.3	75.0	[164]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
398	*Clostridium ultunense*	AN	H	1	37.0	37.0	37.0	[165]
399	*Clostridium ultunense*	AN	H	1	37.0	37.0	37.0	[165]
400	*Clostridium purinolyticum*	AN	H	1	36.0	36.0	36.0	[166]
401	*Caloramator coolhaasii*	AN	H	1	52.5	52.5	52.5	[167]
402	*Clostridium ljungdahlii*	AN	A	1	37.0	37.0	37.0	[168]
403	*Clostridium scatologenes*	AN	H	1	27.5	27.5	27.5	[169]
404	*Chrysiogenes arsenatis*	AN	H	1	28.0	28.0	28.0	[170]
405	*Anaerobranca gottschalkii*	AN	H	8	29.9	55.3	64.9	[171]
406	*Haloanaerobiurn salsugo*	AN	H	6	22.4	40.7	50.7	[172]
407	*Escherichia coli*	FA	H	10	11.9	36.8	44.0	[173]
408	*Caloramator viterbensis*	AN	H	17	32.9	59.1	64.4	[174]
409	*Haliea rubra*	A	H	6	15.0	30.0	44.1	[175]
410	*Plutella xylostella*	A	H	10	8.0	29.7	32.9	[176]
411	*Haliea salexigens*	A	H	7	9.9	29.9	44.0	[177]
412	*Balneola alkaliphila*	A	H	6	14.9	25.0	44.0	[178]
413	*Salinisphaera hydrothermalis*	A	M	5	20.0	35.0	40.0	[179]
414	*Trichogrammatoidea bactrae*	A	H	5	17.0	29.0	29.0	[180]
415	*Aphis spiraecola*	A	H	7	10.0	25.0	32.0	[181]
416	*Iphiseius degenerans*	A	H	5	15.0	30.0	32.5	[182]
417	*Elasmopalpus lignosellus*	A	H	9	13.0	30.0	36.0	[183]
418	*Scolothrips longicornis*	A	H	6	15.0	35.0	37.0	[184]
419	*Amblyseius womersleyi*	A	H	8	16.0	33.0	38.0	[185]
420	*Escherichia coli*	FA	H	4	10.0	37.0	37.0	[186]
421	*Salmonella Typhimurium*	FA	H	4	10.0	37.0	37.0	[186]
422	*Clavigralla shadabi*	A	H	6	20.0	29.8	31.9	[187]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
423	*Clavigralla tomentosicollis*	A	H	6	20.1	30.0	35.9	[187]
424	*Acyrthosiphon pisum*	A	H	5	11.9	23.1	26.7	[188]
425	*Acyrthosiphon pisum*	A	H	5	11.9	19.6	26.7	[188]
426	*Acetanaerobacterium elongatum*	AN	H	1	37.0	37.0	37.0	[189]
427	*Methanopyrus kandleri*	AN	A	10	90.1	105.0	122.1	[190]
428	*Methanopyrus kandleri*	AN	A	10	85.1	100.1	115.2	[190]
429	*Caminicella sporogenes*	AN	H	1	57.5	57.5	57.5	[191]
430	*Muscidifurax raptor*	A	H	9	14.7	30.1	32.6	[192]
431	*Muscidifurax raptor*	A	H	10	14.7	30.1	32.6	[192]
432	*Urolepis rufipes*	A	H	8	15.0	30.0	35.0	[193]
433	*Trichomalopsis sarcophagae*	A	H	4	19.3	25.3	33.0	[194]
434	*Clostridiurn frigidicarnis*	AN	H	33	3.9	32.5	40.5	[195]
435	*Hypoaspis miles*	A	H	4	15.0	25.0	30.0	[196]
436	*Propylea dissecta*	A	H	5	20.0	27.0	35.0	[197]
437	*Stethorus punctillum*	A	H	6	16.0	30.0	32.0	[198]
438	*Hyperaspis notata*	A	H	5	18.0	30.0	32.0	[199]
439	*Aphis gossypii*	A	H	5	10.0	25.0	30.0	[200]
440	*Aphis gossypii*	A	H	5	10.0	30.0	30.0	[201]
441	*Stethorus gilvifrons*	A	H	6	15.0	35.0	35.0	[202]
442	*Toxoptera aurantii*	A	H	7	10.0	28.0	32.0	[203]
443	*Nephus bisignatus*	A	H	4	20.0	25.0	32.5	[204]
444	*Nephus includens*	A	H	4	20.0	30.0	32.5	[204]
445	*Liposcelis entomophila*	A	H	6	20.0	27.5	35.0	[205]
446	*Aphis gossypii*	A	H	8	15.0	25.0	32.5	[206]
447	*Hypothenemus hampei*	A	H	5	20.0	26.0	30.0	[207]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
448	*Tetranychus evansi*	A	H	5	15.0	35.0	35.0	[208]
449	*Euseius finlandicus*	A	H	6	15.0	30.0	32.0	[209]
450	*Tyrophagus putrescentiae*	A	H	6	15.0	30.0	34.0	[210]
451	*Bemisia tabaci*	A	H	5	16.0	28.0	28.0	[211]
452	*Frankliniella occidentalis*	A	H	6	15.0	30.0	30.0	[212]
453	*Aphis gossypii*	A	H	5	10.0	25.0	30.0	[213]
454	*Sitotroga cerealella*	A	H	3	20.0	30.0	30.0	[214]
455	*Sitotroga cerealella*	A	H	3	20.0	30.0	30.0	[214]
456	*Sphaerochaeta globosa*	AN	H	1	27.5	27.5	27.5	[215]
457	*Sphaerochaeta pleomorpha*	AN	H	1	27.5	27.5	27.5	[215]
458	*Toxoptera citricida*	A	H	7	10.0	28.0	32.0	[216]
459	*Paronychiurus kimi*	A	H	5	17.0	25.1	28.0	[217]
460	*Myzus persicae*	A	H	5	10.0	20.0	30.0	[218]
461	*Liposcelis badia*	A	H	7	22.0	27.5	35.0	[219]
462	*Aulacorthum solani*	A	H	4	10.0	25.0	25.0	[220]
463	*Aphis punicae*	A	H	5	17.5	25.0	27.5	[221]
464	*Liposcelis bostrychophila*	A	H	7	20.0	30.0	35.0	[222]
465	*Adoxophyes orana*	A	H	6	14.0	25.0	25.0	[223]
466	*Aphis nasturti*	A	H	5	15.0	27.0	30.0	[224]
467	*Bemisia argentifolii*	A	H	5	20.0	30.0	35.0	[225]
468	*Tetraneura nigriabdominalis*	A	H	4	15.0	30.0	30.0	[226]
469	*Liposcelis paeta*	A	H	4	23.8	33.8	37.5	[227]
470	*Neoseiulus baraki*	A	H	4	25.0	30.0	33.0	[228]
471	*Sporanaerobacter acetigenes*	AN	H	7	25.2	40.1	49.9	[229]
472	*Sporomusa silvacetica*	AN	H	1	30.0	30.0	30.0	[230]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
473	*Caloramator proteoclasticus*	AN	H	1	55.0	55.0	55.0	[231]
474	*Thermococcus peptonophilus*	AN	H	5	70.0	85.2	100.0	[232]
475	*Thermococcus sp.*	AN	H	4	55.0	82.5	82.5	[233]
476	*Thermococcus siculi*	AN	H	5	70.0	84.8	89.9	[234]
477	*Pyrococcus horikoshii*	AN	H	4	85.0	98.0	100.0	[235]
478	*Thermaerobacter marianensis*	A	H	10	50.1	73.9	80.1	[236]
479	*Streptococcus thermophilus*	FA	H	16	21.3	41.8	45.8	[237]
480	*Streptococcus thermophilus*	FA	H	24	16.2	39.9	48.5	[237]
481	*Streptococcus thermophilus*	FA	H	20	22.3	40.9	45.7	[237]
482	*Streptococcus thermophilus*	FA	H	22	17.1	45.3	50.9	[237]
483	*Streptococcus thermophilus*	FA	H	18	18.6	42.2	46.3	[237]
484	*Streptococcus thermophilus*	FA	H	23	16.5	40.1	45.2	[237]
485	*Streptococcus thermophilus*	FA	H	18	24.1	39.1	46.2	[237]
486	*Streptococcus thermophilus*	FA	H	22	17.2	44.1	49.2	[237]
487	*Streptococcus thermophilus*	FA	H	15	23.5	40.6	44.3	[237]
488	*Streptococcus thermophilus*	FA	H	19	24.1	40.4	51.5	[237]
489	*Acidimicrobium ferrooxidans*	A	M	21	26.1	47.3	58.8	[238]
490	*Acidianus brierleyi*	FA	M	14	52.0	68.3	80.4	[238]
491	*Acidianus brierleyi*	FA	M	19	41.9	79.3	83.0	[238]
492	*Sulfolobus metallicus*	A	A	20	50.5	71.0	73.4	[238]
493	*Ferroplasma acidiphilum*	A	A	11	26.9	42.5	45.8	[238]
494	*Ferroplasma cyprexacervatum*	A	A	20	32.6	51.6	62.3	[238]
495	*Sulfobacillus thermosulfidooxidans*	FA	M	20	29.3	48.6	60.2	[238]
496	*Leptospirillum ferriphilum*	A	H	18	17.5	39.6	45.0	[238]
497	*Leptospirillum ferrooxidans*	A	H	16	18.0	35.0	44.0	[238]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
498	*Acidithiobacillus caldus*	FA	H	18	25.8	45.9	51.1	[238]
499	*Acidithiobacillus ferrooxidans*	FA	H	17	11.0	31.0	38.0	[238]
500	*Acidithiobacillus thiooxidans*	FA	H	20	12.1	29.6	39.3	[238]
501	*Methanococcoides burtonii*	AN	H	21	5.6	22.5	28.4	[239]
502	*Pseudomonas sp.*	A	H	11	-2.2	14.7	18.8	[240]
503	*Spirillum sp.*	A	H	14	-2.4	29.8	33.6	[240]
504	*Aeromonas hydrophila*	FA	H	30	0.5	30.9	38.9	[241]
505	*Escherichia coli*	FA	H	10	17.8	39.0	43.0	[242]
506	*Escherichia coli*	FA	H	12	12.1	39.0	42.6	[242]
507	*Escherichia coli*	FA	H	12	13.2	37.2	45.1	[242]
508	*Paracoccus halodenitrificans*	FA	A	13	1.8	33.0	36.5	[242]
509	*Paracoccus halodenitrificans*	FA	A	13	4.0	34.9	38.3	[242]
510	*Paracoccus halodenitrificans*	FA	A	11	10.5	33.0	36.3	[242]
511	*Paracoccus halodenitrificans*	FA	A	13	4.0	35.0	38.3	[242]
512	*Halomonas elongata*	FA	H	13	12.3	39.5	39.5	[242]
513	*Halomonas elongata*	FA	H	11	18.5	38.7	42.2	[242]
514	*Halomonas elongata*	FA	H	14	9.7	36.0	39.4	[242]
515	*Halomonas elongata*	FA	H	14	9.0	37.6	41.5	[242]
516	*Halorubrum lacusprofundi*	A	H	26	5.5	31.5	40.2	[243]
517	*Halorubrum lacusprofundi*	A	H	25	5.2	34.8	40.0	[243]
518	*Klebsiella oxytoca*	FA	H	27	5.4	37.0	44.7	[244]
519	*Pseudomonas fluorescens*	A	H	52	-0.6	30.4	35.4	[245]
520	*Pseudomonas putida*	A	H	85	-0.4	31.7	39.2	[245]
521	*Gelidibacter sp.*	A	H	69	8.5	24.3	32.3	[246]
522	*Glaciecola punicea*	A	H	24	0.3	13.7	20.2	[246]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
523	*Shewanella gelidimarina*	FA	H	28	-0.3	15.4	22.4	[247]
524	*Shewanella gelidimarina*	FA	H	26	0.4	16.3	20.9	[247]
525	*Shewanella gelidimarina*	FA	H	28	-0.3	15.4	22.4	[247]
526	*Listeria monocytogenes*	FA	H	26	6.1	39.1	42.8	[248]
527	*Listeria monocytogenes*	FA	H	27	6.2	33.2	46.6	[248]
528	*Listeria monocytogenes*	FA	H	27	6.2	33.1	46.2	[248]
529	*Listeria monocytogenes*	FA	H	27	3.4	37.2	44.3	[248]
530	*Listeria monocytogenes*	FA	H	28	3.4	34.7	44.3	[248]
531	*Haloarcula vallismortis*	A	H	17	23.0	47.0	55.0	[249]
532	*Halobaculum gomorrense*	A	H	17	23.0	45.0	54.0	[249]
533	*Halococcus morrhuae*	A	H	18	23.0	51.0	57.0	[249]
534	*Haloferax volcanii*	A	H	14	23.0	45.0	49.0	[249]
535	*Halogeometricum borinquense*	A	H	19	23.0	49.0	58.0	[249]
536	*Halorubrum saccharovorum*	A	H	16	23.0	45.0	53.0	[249]
537	*Haloterrigena turkmenica*	A	H	18	23.0	51.0	57.0	[249]
538	*Natrialba asiatica*	A	H	15	23.0	45.0	51.0	[249]
539	*Natrinema pellirubrum*	A	H	18	23.0	51.0	57.0	[249]
540	*Natronobacterium gregoryi*	A	H	16	23.0	47.0	52.0	[249]
541	*Natronococcus occultus*	A	H	17	23.0	45.0	54.0	[249]
542	*Natronomonas bangense*	A	H	15	23.0	43.0	50.0	[249]
543	*Natronomonas pharaonis*	A	H	17	23.0	43.0	56.0	[249]
544	*Halobacterium salinarum*	A	A	15	23.1	49.1	50.2	[249]
545	*Listeria monocytogenes*	FA	H	28	8.4	35.4	38.8	[250]
546	*Escherichia coli*	FA	H	27	7.7	41.0	46.8	[251]
547	*Escherichia coli*	FA	H	57	7.5	38.5	45.8	[251]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
548	*Escherichia coli*	FA	H	27	7.6	43.6	47.4	[251]
549	*Escherichia coli*	FA	H	26	10.4	40.1	47.2	[251]
550	*Escherichia coli*	FA	H	26	8.1	39.6	43.6	[251]
551	*Escherichia coli*	FA	H	48	8.0	41.4	44.8	[251]
552	*Escherichia coli*	FA	H	26	8.9	41.6	46.5	[251]
553	*Escherichia coli*	FA	H	25	8.9	43.6	45.9	[251]
554	*Escherichia coli*	FA	H	25	8.7	43.5	45.4	[251]
555	*Escherichia coli*	FA	H	26	9.0	41.2	46.5	[251]
556	*Candida stellata*	FA	H	15	4.0	22.0	29.0	[252]
557	*Hanseniaspora uvarum*	FA	H	21	4.0	22.0	33.0	[252]
558	*Kluyveromyces marxianus*	FA	H	27	4.0	40.0	42.0	[252]
559	*Pichia fermentans*	FA	H	21	4.0	22.0	37.0	[252]
560	*Saccharomyces arboricolus*	FA	H	24	4.0	33.0	37.0	[252]
561	*Saccharomyces bayanus*	FA	H	24	4.0	29.0	37.0	[252]
562	*Saccharomyces bayanus*	FA	H	21	4.0	29.0	33.0	[252]
563	*Saccharomyces cariocanus*	FA	H	27	4.0	33.0	40.0	[252]
564	*Saccharomyces cerevisiae*	FA	H	27	4.0	37.0	42.0	[252]
565	*Saccharomyces cerevisiae*	FA	H	27	8.0	37.0	42.0	[252]
566	*Saccharomyces cerevisiae*	FA	H	21	4.0	33.0	40.0	[252]
567	*Saccharomyces cerevisiae*	FA	H	24	4.0	33.0	42.0	[252]
568	*Saccharomyces cerevisiae*	FA	H	30	4.0	37.0	42.0	[252]
569	*Saccharomyces cerevisiae*	FA	H	24	4.0	33.0	42.0	[252]
570	*Saccharomyces cerevisiae*	FA	H	24	4.0	33.0	42.0	[252]
571	*Saccharomyces cerevisiae*	FA	H	30	4.0	29.0	42.0	[252]
572	*Saccharomyces cerevisiae*	FA	H	30	4.0	37.0	42.0	[252]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
573	*Saccharomyces cerevisiae*	FA	H	24	4.0	33.0	42.0	[252]
574	*Saccharomyces kudriavzevii*	FA	H	21	4.0	22.0	33.0	[252]
575	*Saccharomyces kudriavzevii*	FA	H	21	4.0	22.0	33.0	[252]
576	*Saccharomyces kudriavzevii*	FA	H	21	4.0	22.0	33.0	[252]
577	*Saccharomyces kudriavzevii*	FA	H	21	4.0	22.0	33.0	[252]
578	*Saccharomyces mikatae*	FA	H	24	4.0	29.0	37.0	[252]
579	*Saccharomyces paradoxus*	FA	H	24	4.0	33.0	37.0	[252]
580	*Saccharomyces paradoxus*	FA	H	27	4.0	29.0	40.0	[252]
581	*Saccharomyces paradoxus*	FA	H	27	4.0	29.0	40.0	[252]
582	*Torulaspora delbrueckii*	FA	H	21	4.0	22.0	37.0	[252]
583	*Anabaena cylindrica*	A	A	1	29.0	29.0	29.0	[253]
584	*Geobacillus toebii*	A	H	1	68.0	68.0	68.0	[254]
585	*Psychrobacter cryopegella*	A	H	10	-10.1	22.0	22.0	[255]
586	*Desulfobacter curvatus*	HN	H	24	-0.7	19.9	22.7	[256]
587	*Desulforhopalus species*	HN	H	28	5.9	33.1	36.7	[256]
588	*Amitus fuscipennis*	A	H	4	15.0	25.0	30.0	[257]
589	*Amitus fuscipennis*	A	H	4	15.0	25.0	30.0	[257]
590	*Amitus fuscipennis*	A	H	4	15.0	25.0	30.0	[257]
591	*Encarsia formosa*	A	H	4	15.0	30.0	30.0	[257]
592	*Trialeurodes vaporariorum*	A	H	4	15.0	30.0	30.0	[257]
593	*Aphelinus semiflavus*	A	H	4	15.6	26.7	29.4	[258]
594	*Praon palitans*	A	H	3	18.3	23.9	23.9	[258]
595	*Trioxys utilis*	A	H	4	15.6	26.7	29.4	[258]
596	*Chryseolinea serpens*	A	H	1	25.0	25.0	25.0	[259]
597	*Geobacillus gargensis*	A	H	1	62.5	62.5	62.5	[260]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
598	*Aphis citricola*	A	H	5	14.6	27.2	29.5	[261]
599	*Aphis gossypii*	A	H	5	5.1	19.7	29.7	[261]
600	*Toxoptera citricidus*	A	H	6	11.3	27.2	27.2	[261]
601	*Toxoptera citricidus*	A	H	4	14.9	25.0	27.7	[261]
602	*Aphis gossypii*	A	H	6	10.0	25.0	35.0	[262]
603	*Callosobruchus analis*	A	H	3	25.0	30.0	35.0	[263]
604	*Callosobruchus chinensis*	A	H	3	25.0	30.0	35.0	[263]
605	*Callosobruchus maculatus*	A	H	4	20.0	32.5	35.0	[263]
606	*Callosobruchus maculatus*	A	H	3	25.0	30.0	35.0	[263]
607	*Callosobruchus rhodesianus*	A	H	4	20.0	30.0	35.0	[263]
608	*Bemisia argentifolii*	A	H	5	20.0	25.0	35.0	[264]
609	*Brevicoryne brassicae*	A	H	4	10.0	20.0	25.0	[265]
610	*Hyadaphis pseudobrassicae*	A	H	5	10.0	25.0	30.0	[265]
611	*Myzus persicae*	A	H	5	5.0	25.0	25.0	[265]
612	*Bactrocera cucurbitae*	A	H	4	16.0	29.0	29.0	[266]
613	*Bactrocera dorsalis*	A	H	3	18.0	29.0	29.0	[266]
614	*Bactrocera latifrons*	A	H	3	18.0	29.0	29.0	[266]
615	*Ceratitis capitata*	A	H	4	16.0	29.0	29.0	[266]
616	*Chlorella pyrenoidosa*	A	A	9	21.5	39.3	42.1	[267]
617	*Chlorella pyrenoidosa*	A	A	6	18.0	31.9	42.0	[267]
618	*Chlorella pyrenoidosa*	A	A	4	18.1	25.4	28.9	[267]
619	*Chlorella pyrenoidosa*	A	A	3	18.0	25.4	25.4	[267]
620	*Anagasta kuehniella*	A	H	4	20.0	25.0	27.5	[268]
621	*Cotesia flavipes*	A	H	4	22.0	25.0	31.0	[269]
622	*Cotesia sesamiae*	A	H	4	22.0	28.0	31.0	[269]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
623	*Cryptolestes ferrugineus*	A	H	3	25.0	30.0	35.0	[270]
624	*Cryptolestes ferrugineus*	A	H	8	22.5	35.0	40.0	[270]
625	*Cryptolestes ferrugineus*	A	H	3	25.0	35.0	35.0	[270]
626	*Dactylopius austrinus*	A	H	8	17.5	30.0	34.0	[271]
627	*Macrolophus pygmaeus*	A	H	5	15.0	27.5	30.0	[272]
628	*Macrolophus pygmaeus*	A	H	5	15.0	27.5	30.0	[272]
629	*Nephaspis oculatus*	A	H	5	20.0	26.0	31.0	[273]
630	*Bactrocera dorsalis*	A	H	6	19.0	34.0	34.0	[274]
631	*Oryzaephilus surinamensis*	A	H	6	20.0	30.0	35.0	[275]
632	*Oryzaephilus surinamensis*	A	H	6	20.0	32.5	35.0	[275]
633	*Oryzaephilus surinamensis*	A	H	6	20.0	32.5	35.0	[275]
634	*Oryzaephilus surinamensis*	A	H	8	20.1	29.7	32.7	[276]
635	*Oryzaephilus surinamensis*	A	H	10	20.3	32.6	34.9	[276]
636	*Oryzaephilus surinamensis*	A	H	10	20.0	32.1	34.6	[276]
637	*Oryzaephilus surinamensis*	A	H	10	19.9	32.1	34.6	[276]
638	*Rhyzopertha dominica*	A	H	12	15.2	29.7	38.5	[276]
639	*Rhyzopertha dominica*	A	H	14	15.4	33.1	38.9	[276]
640	*Rhyzopertha dominica*	A	H	13	15.2	32.6	38.3	[276]
641	*Rhyzopertha dominica*	A	H	14	15.1	32.6	38.5	[276]
642	*Sitophilus oryzae*	A	H	10	15.1	23.4	32.1	[276]
643	*Sitophilus oryzae*	A	H	10	15.4	27.2	32.5	[276]
644	*Sitophilus oryzae*	A	H	10	15.1	26.8	32.2	[276]
645	*Sitophilus oryzae*	A	H	10	15.1	26.8	32.2	[276]
646	*Tribolium castaneum*	A	H	9	24.3	35.0	37.5	[276]
647	*Tribolium castaneum*	A	H	12	20.9	34.5	38.3	[276]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
648	*Tribolium castaneum*	A	H	13	20.0	34.6	39.5	[276]
649	*Pterohelaeus alternatus*	A	H	4	20.6	28.6	33.1	[277]
650	*Pterohelaeus darlingensis*	A	H	5	15.8	28.6	33.1	[277]
651	*Calandra oryzae*	A	H	1	25.5	25.5	25.5	[278]
652	*Calandra oryzae*	A	H	3	18.2	24.3	29.1	[278]
653	*Calandra oryzae*	A	H	3	23.0	28.5	33.5	[278]
654	*Calandra oryzae*	A	H	7	15.2	25.3	33.5	[278]
655	*Rhizopertha dominica*	A	H	3	26.0	32.0	36.0	[278]
656	*Rhizopertha dominica*	A	H	2	22.0	30.1	38.2	[278]
657	*Rhizopertha dominica*	A	H	4	29.0	33.4	38.2	[278]
658	*Saccharicoccus sacchari*	A	H	5	20.0	30.0	33.0	[279]
659	*Scirtothrips perseae*	A	H	4	15.0	20.0	27.5	[280]
660	*Sitobion miscanthi*	A	H	9	12.0	25.0	28.0	[281]
661	*Sitobion near*	A	H	4	12.0	20.0	25.0	[281]
662	*Thrips tabaci*	A	H	4	15.0	25.0	25.0	[282]
663	*Trichogramma pretiosum*	A	H	6	18.0	30.0	32.0	[283]
664	*Trichogramma pretiosum*	A	H	6	18.0	30.0	32.0	[283]
665	*Rhopalosiphum rufiabdominalis*	A	H	5	10.0	25.0	30.0	[284]
666	*Muscidifurax zaraptor*	A	H	7	14.9	31.5	32.9	[285]
667	*Muscidifurax raptorellus*	A	H	5	14.8	31.4	32.9	[286]
668	*Callosobruchus maculatus*	A	H	7	20.0	35.0	40.0	[287]
669	*Eriosoma lanigerum*	A	H	6	10.0	25.0	30.0	[288]
670	*Diatraea lineolata*	A	H	5	22.0	25.0	31.0	[289]
671	*Hyperomyzus lactucae*	A	H	4	17.0	24.0	26.0	[290]
672	*Tribolium castaneum*	A	H	1	30.0	30.0	30.0	[291]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
673	*Tribolium castaneum*	A	H	4	25.0	35.0	35.0	[291]
674	*Tribolium castaneum*	A	H	7	22.5	37.5	37.5	[291]
675	*Tribolium castaneum*	A	H	1	25.0	25.0	25.0	[291]
676	*Sitophilus oryzae*	A	H	7	15.0	27.0	32.3	[292]
677	*Sitophilus oryzae*	A	H	7	15.0	27.0	32.3	[292]
678	*Sitophilus oryzae*	A	H	7	15.0	27.0	32.3	[292]
679	*Trichogrammatoidea bactrae*	A	H	5	15.0	25.0	32.5	[293]
680	*Natranaerobius trueperi*	AN	H	1	52.0	52.0	52.0	[294]
681	*Natronovirga wadinatrunensis*	AN	H	1	51.0	51.0	51.0	[294]
682	*Thermotalea metallivorans*	AN	H	1	50.0	50.0	50.0	[295]
683	*Anaerolinea thermophila*	AN	H	1	55.0	55.0	55.0	[296]
684	*Caldilinea aerophila*	A	H	1	55.0	55.0	55.0	[296]
685	*Acyrthosiphon kondoi*	A	H	8	6.0	20.5	20.5	[297]
686	*Halanaerobium sehlinense*	AN	H	1	43.0	43.0	43.0	[298]
687	*Balneola vulgaris*	A	H	7	10.1	30.0	40.1	[299]
688	*Ruminococcus hydrogenotrophicus*	AN	A	1	37.0	37.0	37.0	[300]
689	*Verminephrobacter aporrectodeae*	microA	H	1	20.0	20.0	20.0	[301]
690	*Verminephrobacter aporrectodeae*	microA	H	1	20.0	20.0	20.0	[301]
691	*Verminephrobacter eiseniae*	A	H	1	25.0	25.0	25.0	[302]
692	*Thermoanaerobacterium sp.*	AN	H	1	50.0	50.0	50.0	[303]
693	*Thermoanaerobacterium sp.*	AN	H	1	50.0	50.0	50.0	[303]
694	*Thermoanaerobacterium sp.*	AN	H	1	50.0	50.0	50.0	[303]
695	*Thermoanaerobacterium sp.*	AN	H	1	50.0	50.0	50.0	[303]
696	*Hydrogenophilus islandicus*	A	M	1	50.0	50.0	50.0	[304]
697	*Thermovorax subterraneus*	AN	H	1	71.0	71.0	71.0	[305]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
698	*Sulfurihydrogenibium azorense*	microA	A	1	68.0	68.0	68.0	[306]
699	*Thermodesulfatator atlanticus*	AN	A	5	55.0	65.0	75.0	[307]
700	*Methanobacterium petrolearium*	AN	H	5	20.0	35.0	40.0	[308]
701	*Methanobacterium ferruginis*	AN	A	6	20.0	40.0	45.0	[308]
702	*Thermodesulfatator indicus*	AN	A	1	70.0	70.0	70.0	[309]
703	*Thermococcus celericrescens*	AN	H	7	49.9	79.8	84.8	[310]
704	*Moorella humiferrea*	AN	H	1	65.0	65.0	65.0	[311]
705	*Thermosulfidibacter takaii*	AN	A	6	54.9	70.0	78.0	[312]
706	*Sulfurihydrogenibium subterraneum*	AN	A	1	62.5	62.5	62.5	[313]
707	*Thermococcus gammatolerans*	AN	H	9	55.1	89.4	95.4	[314]
708	*Persephonella hydrogeniphil*	AN	A	7	50.1	70.2	72.6	[315]
709	*Methanotorris formicicus*	AN	A	7	54.8	74.7	82.8	[316]
710	*Sulfurihydrogenibium rodmanii*	microA	A	12	54.9	74.9	80.0	[317]
711	*Sulfurihydrogenibium kristjanssonii*	A	H	30	40.0	67.8	72.8	[318]
712	*Gemmatimonas aurantiaca*	A	H	1	30.0	30.0	30.0	[319]
713	*Thermosipho affectus*	AN	H	1	70.0	70.0	70.0	[320]
714	*Nautilia nitratireducens*	AN	A	8	24.6	54.8	60.0	[321]
715	*Tepidiphilus margaritifer*	A	H	1	50.0	50.0	50.0	[322]
716	*Thermoanaerobacter sulfurigignens*	AN	H	18	34.0	63.1	72.0	[323]
717	*Methanobacterium paludis*	AN	A	1	34.5	34.5	34.5	[324]
718	*Nautilia profundicola*	AN	M	6	29.8	39.9	55.1	[325]
719	*Thermococcus thioreducens*	AN	H	1	84.0	84.0	84.0	[326]
720	*Thermosipho globiformans*	AN	H	7	39.9	68.1	75.0	[327]
721	*Methanobacterium lacuss*	AN	A	1	25.0	25.0	25.0	[328]
722	*Thermococcus nautili*	AN	H	9	56.9	87.8	92.3	[329]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
723	*Thermosipho atlanticus*	AN	H	1	65.0	65.0	65.0	[330]
724	*Selenomonas bovis*	AN	H	1	39.0	39.0	39.0	[331]
725	*Mahella australiensis*	AN	H	1	50.0	50.0	50.0	[332]
726	*Thermoanaerobacter pseudethanolicus*	AN	H	1	65.0	65.0	65.0	[333]
727	*Thioprofundum hispidum*	AN	A	1	39.0	39.0	39.0	[334]
728	*Thermodesulfovibrio aggregans*	AN	H	1	60.0	60.0	60.0	[335]
729	*Thermosulfurimonas dismutans*	AN	A	12	49.9	74.1	91.8	[336]
730	*Methylothermus subterraneus*	A	H	1	57.5	57.5	57.5	[337]
731	*Tepidimicrobium xylanilyticum*	AN	H	1	60.0	60.0	60.0	[338]
732	*Caldisericum exile*	AN	H	4	55.1	65.0	70.0	[339]
733	*Thermococcus prieurii*	AN	H	9	57.0	88.6	93.1	[340]
734	*Thermosipho activus*	AN	H	1	65.0	65.0	65.0	[341]
735	*Moorella stamsii*	AN	H	1	65.0	65.0	65.0	[342]
736	*Thermobacillus xylanilyticus*	A	H	1	55.0	55.0	55.0	[343]
737	*Tepidimonas ignava*	A	H	7	29.8	54.9	60.1	[344]
738	*Staphylothermus hellenicus*	AN	H	1	85.0	85.0	85.0	[345]
739	*Thermococcus aegaeicus*	AN	H	1	90.0	90.0	90.0	[345]
740	*Thermoanaerobacterium polysaccharolyticum*	AN	H	1	68.0	68.0	68.0	[346]
741	*Thermoanaerobacterium polysaccharolyticum*	AN	H	1	68.0	68.0	68.0	[346]
742	*Thermoanaerobacterium polysaccharolyticum*	AN	H	1	68.0	68.0	68.0	[346]
743	*Thermoanaerobacterium zeae*	AN	H	1	67.5	67.5	67.5	[346]
744	*Methanobacterium congolense*	AN	A	1	39.5	39.5	39.5	[347]
745	*Thermaerobacter subterraneus*	A	H	1	70.0	70.0	70.0	[348]
746	*Petrotoga olearia*	AN	H	4	45.1	54.9	60.0	[349]
747	*Thermovibrio ruber*	AN	A	1	75.0	75.0	75.0	[350]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
748	*Sulfobacillus benefaciens*	FA	M	7	29.9	38.5	45.0	[351]
749	*Thiobacillus thermosulfatu*	A	A	2	50.0	50.0	52.5	[352]
750	*Phenylobacterium immobile*	A	H	1	29.0	29.0	29.0	[353]
751	*Lebetimonas acidiphila*	AN	A	7	30.2	50.4	67.2	[354]
752	*Alicyclobacillus pomorum*	FA	H	1	47.5	47.5	47.5	[355]
753	*Tepidibacter formicigenes*	AN	H	1	45.0	45.0	45.0	[356]
754	*Methanohalophilus levihalophilus*	AN	H	1	35.0	35.0	35.0	[357]
755	*Anaerolinea thermolimosa*	AN	H	1	50.0	50.0	50.0	[358]
756	*Leptolinea tardivitalis*	AN	H	1	37.0	37.0	37.0	[358]
757	*Levilinea saccharolytica*	AN	H	1	38.5	38.5	38.5	[358]
758	*Caldilinea tarbellica*	AN	H	1	55.0	55.0	55.0	[359]
759	*Thermotoga elfii*	AN	H	1	66.0	66.0	66.0	[360]
760	*Litorilinea aerophila*	A	H	1	55.0	55.0	55.0	[361]
761	*Erwinia amylovora*	FA	H	10	6.5	30.0	33.0	[362]
762	*Thermoanaerobacter wiegelii*	AN	H	1	67.5	67.5	67.5	[363]
763	*Rhodothermus obamensis*	A	H	1	80.0	80.0	80.0	[364]
764	*Deferribacter abyssi*	AN	A	1	60.0	60.0	60.0	[365]
765	*Porphyrobacter tepidarius*	A	H	9	30.1	42.7	50.3	[366]
766	*Methanobacterium subterraneum*	AN	A	9	3.7	40.0	44.9	[367]
767	*Petrotoga mobilis*	AN	H	1	59.0	59.0	59.0	[368]
768	*Melitea salexigens*	A	H	7	10.0	30.0	43.9	[369]
769	*Thiomicrospira chilensis*	A	A	1	29.0	29.0	29.0	[370]
770	*Archaeal str.*	AN	A	10	84.9	104.9	120.9	[371]
771	*Hydrogenimonas thermophila*	microA	A	5	35.0	55.0	60.0	[372]
772	*Saccharomyces bayanus*	FA	H	7	21.5	30.0	35.0	[373]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
773	*Saccharomyces cerevisiae*	FA	H	7	25.0	35.0	38.0	[373]
774	*Candida valida*	FA	H	15	17.0	36.3	43.0	[374]
775	*Brettanomyces bruxellensis*	FA	H	6	15.0	32.0	35.0	[375]
776	*Synechococcus clone*	A	A	7	30.0	45.0	57.0	[376]
777	*Synechococcus clone*	A	A	7	30.0	45.0	57.0	[376]
778	*Synechococcus clone*	A	A	7	30.0	45.0	57.0	[376]
779	*Synechococcus clone*	A	A	7	30.0	45.0	57.0	[376]
780	*Synechococcus clone*	A	A	7	30.0	45.0	57.0	[376]
781	*Caloranaerobacter ferrireducens*	AN	H	1	60.0	60.0	60.0	[377]
782	*Thermococcus sibiricus*	AN	H	1	78.0	78.0	78.0	[378]
783	*Escherichia coli*	FA	H	13	8.0	36.7	43.0	[379]
784	*Escherichia coli*	FA	H	15	-0.1	37.0	42.8	[379]
785	*Thalassobaculum salexigens*	A	H	7	9.9	30.0	43.9	[380]
786	*Echinamoeba thermarum*	A	H	5	43.1	50.0	55.1	[381]
787	*Amoeba algonquinensis*	A	H	4	5.0	12.5	12.5	[382]
788	*Saccamoeba limax*	A	H	4	5.0	12.5	12.5	[382]
789	*Vannella sp.*	A	H	4	5.0	12.5	12.5	[382]
790	*Vannella sp.*	A	H	4	5.0	12.5	12.5	[382]
791	*Acanthamoeba polyphaga*	A	H	4	10.0	20.0	25.0	[383]
792	*Cochliopodium minus*	A	H	4	10.0	25.0	25.0	[383]
793	*Glaeseria mira*	A	H	4	10.0	25.0	25.0	[383]
794	*Saccamoeba limax*	A	H	4	10.0	20.0	25.0	[383]
795	*Vannella sp.*	A	H	4	10.0	25.0	25.0	[383]
796	*Vexillifera bacillipedes*	A	H	3	15.0	25.0	25.0	[383]
797	*Meiothermus cerberus*	A	H	6	35.0	55.2	60.1	[384]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
798	*Sulfolobus sp.*	A	M	7	74.9	87.1	88.8	[385]
799	*Sulfolobus sp.*	A	M	5	59.7	75.0	77.0	[385]
800	*Picrophilus oshimae*	A	H	6	48.0	60.1	63.0	[386]
801	*Kluyveromyces marxianus*	FA	H	18	7.0	37.0	46.9	[387]
802	*Thermus thermophilus*	A	H	23	53.1	66.9	83.2	[388]
803	*Thermus aquaticus*	A	H	11	46.0	69.7	78.7	[389]
804	*Methanococcus jannaschii*	AN	A	7	51.3	85.6	85.6	[390]
805	*Alicyclobacillus acidocaldarius*	FA	H	6	45.0	65.1	70.1	[391]
806	*Alicyclobacillus acidocaldarius*	FA	H	6	45.0	65.1	69.9	[391]
807	*Alicyclobacillus acidocaldarius*	FA	H	5	45.0	65.1	65.1	[391]
808	*Pelotomaculum thermopropionicum*	AN	H	5	45.0	55.0	65.0	[392]
809	*Thermacetogenium phaeum*	AN	A	7	40.0	58.0	65.1	[393]
810	*Geobacillus stearothermophilus*	FA	A	6	37.0	55.0	70.0	[394]
811	*Geobacillus thermoleovorans*	FA	H	5	44.9	65.0	69.8	[395]
812	*Thermoanaerobacter kivui*	AN	H	6	54.1	64.0	69.8	[396]
813	*Thermoanaerobacter mathranii*	AN	H	6	50.1	68.9	75.0	[397]
814	*Caldicellulosiruptor changbaiensis*	AN	H	8	39.9	74.4	95.0	[398]
815	*Chlorobium tepidum*	AN	A	11	32.1	46.9	51.1	[399]
816	*Halococcus hamelinensis*	A	H	1	37.0	37.0	37.0	[400]
817	*Aspergillus candidus*	A	H	8	11.9	29.8	37.4	[401]
818	*Saccharomyces uvarum*	FA	H	6	25.0	33.0	43.0	[402]
819	*Candida curiosa*	FA	H	12	8.2	12.7	14.1	[403]
820	*Cryptococcus neoformus*	FA	H	22	29.4	37.0	39.4	[403]
821	*Globigerina bulloides*	A	H	8	9.8	22.0	25.1	[404]
822	*Globigerinella siphonifera*	A	H	18	11.8	26.1	29.7	[404]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
823	*Globigerinoides ruber*	A	H	11	15.4	26.5	30.7	[404]
824	*Globigerinoides sacculifer*	A	H	29	13.9	29.1	31.1	[404]
825	*Neogloboquadrina dutertrei*	A	H	9	8.8	16.2	31.6	[404]
826	*Neogloboquadrina pachyderma*	A	H	5	5.9	19.2	19.2	[404]
827	*Orbulina universa*	A	H	23	15.0	26.1	30.8	[404]
828	*Pyrococcus abyssi*	AN	H	8	72.1	95.9	101.5	[405]
829	*Thermoanaerobacter subterraneus*	AN	H	7	39.9	65.1	75.1	[406]
830	*Isosphaera pallida*	A	H	7	28.0	40.6	54.2	[407]
831	*Thermoproteus uzoniensis*	AN	H	5	78.3	86.3	97.4	[408]
832	*Acidothermus cellulolyticus*	A	H	3	44.9	54.8	59.9	[409]
833	*Acidothermus cellulolyticus*	A	H	4	44.7	48.8	60.6	[409]
834	*Acidothermus cellulolyticus*	A	H	4	44.8	59.4	64.9	[409]
835	*Hydrogenobacter thermophilus*	A	A	9	50.0	71.7	78.7	[410]
836	*Syntrophothermus lipocalidus*	AN	H	4	44.9	55.4	60.3	[411]
837	*Thermoanaerobacter tengcongensis*	AN	H	8	50.1	75.3	80.1	[412]
838	*Persephonella guaymasensis*	microA	A	13	60.0	70.2	75.1	[413]
839	*Persephonella marina*	microA	A	17	60.0	73.2	77.2	[413]
840	*Thiobacillus caldus*	A	M	6	31.9	45.1	52.0	[414]
841	*Thermodesulfobacterium commune*	AN	H	7	50.0	69.6	84.8	[415]
842	*Halomicronema excentricum*	A	A	5	27.9	45.0	50.1	[416]
843	*Halomicronema excentricum*	A	A	5	21.6	39.9	45.3	[416]
844	*Halomicronema excentricum*	A	A	4	27.9	40.0	44.9	[416]
845	*Thermotoga lettingae*	AN	H	6	49.7	64.9	69.8	[417]
846	*Clostridium thermosulfurogenes*	AN	H	7	40.0	59.5	64.7	[418]
847	*Halococcus dombrowskii*	A	H	1	37.0	37.0	37.0	[419]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
848	*Methanobacterium flexile*	AN	H	9	10.0	35.0	50.0	[420]
849	*Methanobacterium movens*	AN	H	9	10.0	35.0	50.0	[420]
850	*Thermocrinis ruber*	A	M	5	59.9	79.9	84.8	[421]
851	*Clostridium perfringens*	AN	H	4	30.0	45.0	45.0	[422]
852	*Vibrio alginolyticus*	FA	H	6	19.9	36.1	48.9	[423]
853	*Clostridium perfringens*	AN	H	48	15.0	43.0	51.9	[424]
854	*Clostridium isatidis*	AN	H	13	30.1	50.8	54.9	[425]
855	*Thermohalobacter berrensis*	AN	H	5	45.2	65.2	65.2	[426]
856	*Clostridium sp.*	AN	H	6	15.1	36.7	41.9	[427]
857	*Geoglobus ahangari*	AN	A	5	70.0	87.6	87.6	[428]
858	*Rhodoferax antarcticus*	FA	M	9	0.0	20.6	24.8	[429]
859	*Methanogenium frigidum*	AN	A	17	-0.0	10.1	19.0	[430]
860	*Methanoculleus submarinus*	AN	H	20	14.9	45.0	49.9	[431]
861	*Photobacterium frigidiphilum*	FA	H	8	5.9	13.8	20.6	[432]
862	*Pyrobaculum aerophilum*	FA	M	5	85.0	99.0	100.0	[433]
863	*Pyrobaculum calidifontis*	FA	H	5	80.1	90.0	98.0	[434]
864	*Thermococcus acidaminovorans*	AN	H	6	54.9	84.9	94.9	[435]
865	*Ignicoccus hospitalis*	AN	A	7	71.8	87.0	93.8	[436]
866	*Porphyrobacter cryptus*	A	H	10	25.2	40.1	52.7	[437]
867	*Porphyrobacter cryptus*	A	H	11	25.1	50.4	55.3	[437]
868	*Porphyrobacter cryptus*	A	H	11	25.1	50.2	55.1	[437]
869	*Alteromonas haloplanctis*	A	H	3	4.0	18.0	25.0	[438]
870	*Moraxella sp.*	A	H	3	3.0	25.0	25.0	[438]
871	*Moraxella sp.*	A	H	2	3.0	17.0	17.0	[438]
872	*Psychrobacter immobilis*	A	H	2	4.0	25.0	25.0	[438]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
873	*Bacillus sp.*	A	H	2	4.0	25.0	25.0	[438]
874	*Psychrobacter sp.*	A	H	6	4.9	18.1	36.8	[439]
875	*Psychrobacter sp.*	A	H	6	5.1	18.1	37.0	[439]
876	*Clostridium sp.*	AN	H	6	-5.1	5.9	14.9	[439]
877	*Clostridium algoriphilium*	AN	H	6	-2.0	6.0	15.0	[440]
878	*Colwellia demingiae*	FA	H	18	0.3	13.0	15.7	[441]
879	*Colwellia hornerae*	FA	H	15	3.2	10.6	16.7	[441]
880	*Colwellia psychotropica*	FA	H	19	2.0	17.9	24.5	[441]
881	*Colwellia psychrerythraea*	FA	H	16	2.0	13.9	16.9	[441]
882	*Psychromonas antarctica*	AN	H	3	4.0	15.0	15.0	[442]
883	*Psychromonas antarctica*	AN	H	3	4.0	15.0	15.0	[442]
884	*Psychromonas antarctica*	AN	H	3	4.0	15.0	15.0	[442]
885	*Psychromonas antarctica*	AN	H	3	4.0	15.0	15.0	[442]
886	*Psychromonas antarctica*	AN	H	3	4.0	15.0	15.0	[442]
887	*Psychromonas antarctica*	AN	H	3	4.0	4.0	15.0	[442]
888	*Psychromonas antarctica*	AN	H	1	4.0	4.0	4.0	[442]
889	*Psychromonas antarctica*	AN	H	1	4.0	4.0	4.0	[442]
890	*Psychromonas kaikoae*	AN	H	2	4.0	10.0	10.0	[442]
891	*Psychromonas kaikoae*	AN	H	2	4.0	4.0	10.0	[442]
892	*Psychromonas kaikoae*	AN	H	3	4.0	4.0	15.0	[442]
893	*Psychromonas kaikoae*	AN	H	3	4.0	4.0	15.0	[442]
894	*Psychromonas kaikoae*	AN	H	3	4.0	10.0	15.0	[442]
895	*Psychromonas kaikoae*	AN	H	3	4.0	10.0	15.0	[442]
896	*Psychromonas kaikoae*	AN	H	3	4.0	15.0	15.0	[442]
897	*Psychromonas kaikoae*	AN	H	3	4.0	15.0	15.0	[442]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
898	*Bacillus cereus*	FA	H	9	10.0	37.0	43.0	[443]
899	*Bacillus cereus*	FA	H	10	10.0	40.0	44.0	[443]
900	*Bacillus cereus*	FA	H	10	10.0	40.0	44.0	[443]
901	*Bacillus cereus*	FA	H	9	8.0	30.0	37.0	[443]
902	*Bacillus cereus*	FA	H	7	10.0	35.0	37.0	[443]
903	*Bacillus cereus*	FA	H	7	10.0	35.0	37.0	[443]
904	*Bacillus cereus*	FA	H	8	10.0	37.0	40.0	[443]
905	*Bacillus cereus*	FA	H	9	10.0	42.0	42.0	[443]
906	*Listeria monocytogenes*	FA	H	11	2.0	40.0	40.0	[443]
907	*Listeria monocytogenes*	FA	H	12	2.0	40.0	42.0	[443]
908	*Listeria monocytogenes*	FA	H	16	2.0	37.0	43.0	[443]
909	*Escherichia coli*	FA	H	7	8.0	40.0	44.9	[443]
910	*Escherichia coli*	FA	H	7	8.0	40.1	45.0	[443]
911	*Escherichia coli*	FA	H	7	8.0	40.1	45.0	[443]
912	*Escherichia coli*	FA	H	7	8.0	40.1	45.0	[443]
913	*Escherichia coli*	FA	H	7	8.0	40.1	45.0	[443]
914	*Escherichia coli*	FA	H	7	8.0	40.1	45.0	[443]
915	*Escherichia coli*	FA	H	7	8.0	40.0	45.0	[443]
916	*Escherichia coli*	FA	H	7	8.0	40.1	45.0	[443]
917	*Clostridium perfringens*	AN	H	5	32.2	43.3	48.9	[444]
918	*Clostridium perfringens*	AN	H	25	15.6	44.7	48.9	[445]
919	*Clostridium perfringens*	AN	H	3	30.0	45.0	45.0	[446]
920	*Salmonellae sp.*	FA	H	6	10.0	35.0	35.0	[447]
921	*Salmonellae sp.*	FA	H	6	10.0	35.0	35.0	[447]
922	*Salmonella typhimurium*	FA	H	5	20.0	40.0	40.0	[448]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
923	*Salmonella typhimurium*	FA	H	6	15.0	40.0	40.0	[448]
924	*Brochothrix thermosphacta*	FA	H	7	0.0	25.1	30.1	[449]
925	*Lactococcus piscium*	FA	H	7	0.0	25.0	27.1	[449]
926	*Brochothrix thermosphacta*	FA	H	10	2.1	25.0	25.0	[450]
927	*Brochothrix thermosphacta*	FA	H	9	2.1	25.0	25.0	[450]
928	*Salmonellae typhimurium*	FA	H	2	25.0	37.0	37.0	[451]
929	*Salmonellae typhimurium*	FA	H	2	25.0	37.0	37.0	[451]
930	*Salmonellae typhimurium*	FA	H	2	25.0	37.0	37.0	[451]
931	*Salmonellae typhimurium*	FA	H	1	37.0	37.0	37.0	[451]
932	*Salmonellae typhimurium*	FA	H	2	25.0	37.0	37.0	[451]
933	*Salmonella typhimurium*	FA	H	1	25.0	25.0	25.0	[451]
934	*Chloroflexus aurantiacus*	FA	H	1	55.0	55.0	55.0	[452]
935	*Chloroflexus aurantiacus*	FA	H	1	55.0	55.0	55.0	[452]
936	*Clostridium perfringens*	AN	H	4	37.0	43.0	46.0	[453]
937	*Clostridium perfringens*	AN	H	4	37.0	43.0	46.0	[453]
938	*Clostridium perfringens*	AN	H	4	37.0	46.0	46.0	[453]
939	*Clostridium perfringens*	AN	H	4	37.0	46.0	46.0	[453]
940	*Clostridium perfringens*	AN	H	4	37.0	43.0	46.0	[453]
941	*Clostridium perfringens*	AN	H	4	37.0	43.0	46.0	[453]
942	*Clostridium perfringens*	AN	H	4	37.0	46.0	46.0	[453]
943	*Clostridium perfringens*	AN	H	4	37.0	43.0	46.0	[453]
944	*Escherichia coli*	FA	H	17	13.3	39.0	47.9	[454]
945	*Klebsiella pneumoniae*	FA	H	11	20.1	40.6	47.3	[455]
946	*Klebsiella pneumoniae*	FA	H	10	20.2	37.9	44.7	[455]
947	*Coccobacillus sp.*	FA	H	6	34.9	49.9	56.9	[455]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
948	*Bacillus sp.*	FA	H	6	35.0	55.0	57.0	[456]
949	*Aeromonas hydrophila*	FA	H	5	5.0	40.0	40.0	[457]
950	*Latris lineata*	A	H	4	12.0	14.0	18.0	[458]
951	*Dictyoglomus thermophilum*	AN	H	7	51.0	78.3	80.3	[459]
952	*Bacillus caldotenax*	FA	H	5	49.7	65.0	69.6	[460]
953	*Bacillus caldotenax*	FA	H	8	39.8	64.9	70.0	[460]
954	*Sulfurimonas paralvinellae*	microA	A	7	4.2	30.1	34.9	[461]
955	*Methanobacterium thermoautotrophicum*	AN	A	9	44.8	64.9	70.2	[462]
956	*Archaebacterial str.*	AN	H	7	63.5	88.5	94.9	[463]
957	*Eubacteria sp.*	AN	H	7	45.7	77.3	88.2	[464]
958	*Thermococcus chitonophagus*	AN	H	7	65.0	85.0	92.9	[465]
959	*Palaeococcus helgesonii*	FA	H	7	45.1	75.2	84.9	[466]
960	*Thermococcus waiotapuensis*	AN	H	8	64.0	84.9	89.8	[467]
961	*Thermococcus barossii*	AN	H	6	60.0	82.9	92.0	[468]
962	*Thermococcus celer*	AN	H	6	60.0	82.9	91.6	[468]
963	*Thermococcus atlanticus*	AN	H	6	69.9	89.8	94.8	[469]
964	*Campylobacter jejuni*	microA	H	6	33.0	41.8	43.9	[470]
965	*Campylobacter jejuni*	microA	H	7	31.2	36.9	44.0	[470]
966	*Pyrococcus furiosus*	AN	H	9	70.2	100.0	103.1	[471]
967	*Pyrobaculum islandicum*	AN	M	5	89.9	98.9	101.9	[472]
968	*Pyrobaculum organotrophum*	AN	H	5	89.9	100.5	102.0	[472]
969	*Anoxybacillus pushchinensis*	AN	H	4	37.0	61.9	61.9	[473]
970	*Thermococcus barophilus*	AN	H	7	75.1	84.9	100.1	[474]
971	*Thermococcus barophilus*	AN	H	4	75.1	85.1	90.0	[474]
972	*Thermoanaerobacter keratinophilus*	AN	H	5	49.9	70.0	75.2	[475]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
973	*Thermodesulfobium narugense*	AN	A	1	55.0	55.0	55.0	[476]
974	*Thermosipho geolei*	AN	H	5	45.0	70.1	74.7	[477]
975	*Thermotoga naphthophila*	AN	H	9	46.8	79.3	84.3	[478]
976	*Thermotoga petrophila*	AN	H	9	45.5	79.5	84.3	[478]
977	*Ferroglobus placidus*	AN	M	5	75.2	85.1	95.2	[479]
978	*Methanosarcina acetivorans*	AN	H	7	15.0	40.1	45.0	[480]
979	*Palaeococcus ferrophilus*	AN	H	8	60.0	83.0	88.0	[481]
980	*Pseudoxanthomonas broegbernensis*	A	H	3	24.9	30.0	35.0	[482]
981	*Pseudoxanthomonas taiwanensi*	A	H	7	29.9	50.0	60.0	[482]
982	*Thermosipho japonicus*	AN	H	8	44.9	72.0	80.1	[483]
983	*Hydrogenobacter subterraneus*	A	H	7	60.1	77.9	85.2	[484]
984	*Sulfurisphaera ohwakuensis*	FA	H	6	65.3	85.2	90.3	[485]
985	*Thermotoga subterranea*	AN	H	6	50.1	69.9	75.0	[486]
986	*Thermosipho melanesiensis*	AN	H	6	50.1	69.9	75.1	[487]
987	*Thermococcus alcaliphilus*	AN	H	7	54.8	84.8	89.9	[488]
988	*Thermococcus fumicolans*	AN	H	7	76.4	84.1	103.2	[489]
989	*Methanocorpusculum labreanum*	AN	H	4	25.0	37.1	40.0	[490]
990	*Methanolobus bombayensis*	AN	H	13	21.9	36.8	39.9	[491]
991	*Halonatronum saccharophilum*	AN	H	9	18.0	46.8	60.2	[492]
992	*Acetobacterium bakii*	AN	A	6	1.1	19.9	24.9	[493]
993	*Acetobacterium fimetarium*	AN	A	7	1.1	29.8	29.8	[493]
994	*Acetobacterium paludosum*	AN	A	6	1.1	19.9	24.8	[493]
995	*Natroniella acetigena*	AN	H	5	27.9	37.0	40.0	[494]
996	*Psychromonas antarcticus*	FA	H	6	1.9	12.1	17.0	[495]
997	*Methanosarcina lacustris*	AN	H	8	1.1	25.2	35.2	[496]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
998	*Thiobacillus hydrothermalis*	A	A	8	11.1	35.0	45.2	[497]
999	*Amphibacillus fermentum*	FA	H	8	18.1	36.2	55.4	[498]
1000	*Amphibacillus tropicus*	FA	H	8	17.8	38.2	55.2	[498]
1001	*Methanolobus psychrophilus*	AN	H	5	0.1	18.0	20.0	[499]
1002	*Methanomicrobium paynteri*	AN	H	6	25.0	39.9	41.9	[500]
1003	*Anoxynatronum sibiricum*	AN	H	5	25.0	35.1	41.1	[501]
1004	*Methanogenium marinum*	AN	H	5	10.0	24.8	24.9	[502]
1005	*Clostridium vincentii*	AN	H	5	2.1	12.2	16.9	[503]
1006	*Methylocystis echinoides*	FA	H	4	10.0	10.0	29.9	[504]
1007	*Methylocystis methanolicus*	FA	H	3	15.1	30.0	30.0	[504]
1008	*Methylocystis minimus*	FA	H	3	15.0	30.0	30.0	[504]
1009	*Methylocystis parvus*	FA	H	3	15.1	30.0	30.0	[504]
1010	*Methylocystis pyriformis*	FA	H	4	10.0	10.0	30.0	[504]
1011	*Methylosinus sporium*	FA	H	3	15.0	30.0	30.0	[504]
1012	*Methylosinus trichosporium*	FA	H	3	15.0	30.0	30.0	[504]
1013	*Methylobacter bovis*	FA	H	4	10.0	20.1	30.1	[504]
1014	*Methylobacter chroococcum*	FA	H	4	10.0	14.9	29.9	[504]
1015	*Methylobacter vinelandii*	FA	H	4	10.1	20.1	30.2	[504]
1016	*Methylococcus capsulatus*	FA	H	3	15.0	30.1	30.1	[504]
1017	*Methylomonas methanica*	FA	H	4	10.1	20.1	30.0	[504]
1018	*Staphylothermus marinus*	AN	H	9	64.9	92.1	98.1	[505]
1019	*Staphylothermus marinus*	AN	H	4	79.8	84.8	91.8	[505]
1020	*Clostridium perfringens*	AN	H	7	26.0	45.0	51.0	[506]
1021	*Clostridium perfringens*	AN	H	7	26.0	41.0	51.0	[506]
1022	*Clostridium perfringens*	AN	H	5	33.0	41.0	49.0	[506]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1023	*Clostridium perfringens*	AN	H	5	33.0	41.0	49.0	[506]
1024	*Archaebacterial str.*	AN	H	8	54.1	81.9	91.1	[507]
1025	*Clostridium aciditolerans*	AN	H	1	37.0	37.0	37.0	[508]
1026	*Acetobacterium tundrae*	AN	A	8	1.0	20.1	30.0	[509]
1027	*Methanobacterium beijingense*	AN	H	1	37.0	37.0	37.0	[510]
1028	*Flavobacterium limicola*	A	H	5	4.9	19.9	25.0	[511]
1029	*Shewanella donghaensis*	FA	H	8	5.0	17.1	20.0	[512]
1030	*Thermosphaera aggregans*	AN	H	6	74.9	85.0	90.1	[513]
1031	*Alkaliphilus transvaalensis*	AN	H	9	20.0	40.0	50.3	[514]
1032	*Desulfobacter psychrotolerans*	AN	H	12	-3.7	20.2	26.3	[515]
1033	*Spirochaeta africana*	AN	H	7	15.0	30.1	44.0	[516]
1034	*Spirochaeta alkalica*	AN	H	8	15.0	37.0	44.1	[516]
1035	*Spirochaeta asiatica*	AN	H	6	22.0	36.9	40.0	[516]
1036	*Trichococcus patagoniensis*	FA	H	8	5.1	30.0	35.3	[517]
1037	*Stichococcus bacillaris*	A	A	7	4.3	25.1	35.0	[518]
1038	*Stichococcus bacillaris*	A	A	5	4.0	25.0	25.0	[518]
1039	*Stichococcus minutus*	A	A	4	10.0	25.0	25.0	[518]
1040	*Marinitoga piezophila*	AN	H	5	49.9	59.9	70.0	[519]
1041	*Marinitoga piezophila*	AN	H	6	45.0	64.9	69.9	[519]
1042	*Marinitoga piezophila*	AN	H	6	45.0	64.7	70.1	[519]
1043	*Methanococcus vulcanius*	AN	A	10	50.0	79.6	89.2	[520]
1044	*Hydrogenobacter acidophilus*	A	A	4	49.8	64.8	70.0	[521]
1045	*Caldivirga maquilingensis*	FA	H	4	75.0	85.0	90.0	[522]
1046	*Thermococcus hydrothermalis*	AN	H	11	55.0	79.9	105.3	[523]
1047	*Vibrio diabolicus*	FA	H	7	15.1	40.1	45.0	[524]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1048	*Brachionus patulus*	A	H	9	15.0	35.0	35.0	[525]
1049	*Keratella cochlearis*	A	H	5	5.0	25.0	25.0	[526]
1050	*Brachionus plicatilis*	A	H	4	10.0	20.0	20.0	[527]
1051	*Psychroflexus torquis*	A	H	22	0.9	11.3	19.2	[528]
1052	*Rhodoglobus vestalii*	A	H	6	1.9	17.9	22.0	[529]
1053	*Clostridium gasigenes*	AN	H	21	-0.5	22.0	25.9	[530]
1054	*Palaeococcus pacificus*	AN	H	1	80.0	80.0	80.0	[531]
1055	*Methanosarcina barkeri*	AN	H	8	19.9	45.3	55.1	[532]
1056	*Methanosarcina barkeri*	AN	H	5	19.6	31.0	40.1	[532]
1057	*Methanosarcina barkeri*	AN	H	5	24.7	40.9	44.9	[532]
1058	*Methanosarcina barkeri*	AN	H	4	19.9	36.9	36.9	[532]
1059	*Methanosarcina barkeri*	AN	H	6	24.9	41.9	45.0	[532]
1060	*Methanosarcina barkeri*	AN	H	6	25.0	42.1	46.2	[532]
1061	*Methanosarcina barkeri*	AN	H	7	20.0	40.1	44.9	[532]
1062	*Methanosarcina mazel*	AN	H	5	24.9	41.9	44.9	[532]
1063	*Methanosarcina mazel*	AN	H	6	20.0	42.0	45.3	[532]
1064	*Methanosarcina mazel*	AN	H	7	20.0	39.9	45.2	[532]
1065	*Methanosarcina vacuolata*	AN	H	5	20.1	42.1	42.1	[532]
1066	*Methanosarcina vacuolata*	AN	H	4	24.9	36.9	40.9	[532]
1067	*Methanosarcina vacuolata*	AN	H	4	24.8	36.9	39.7	[532]
1068	*Methanosarcina vacuolata*	AN	H	5	19.8	39.7	39.7	[532]
1069	*Methanobacterium kanagiense*	AN	A	6	15.0	39.9	44.9	[533]
1070	*Methanococcus infernus*	AN	A	8	55.3	84.9	90.1	[534]
1071	*Methanoculleus marisnigri*	AN	H	7	25.1	40.8	55.1	[535]
1072	*Methanoculleus marisnigri*	AN	H	6	25.0	39.8	45.0	[535]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1073	*Methanogenium cariaci*	AN	H	7	19.7	45.1	45.1	[535]
1074	*Rubrobacter radiotolerans*	A	H	6	29.9	44.8	54.9	[536]
1075	*Rubrobacter taiwanensis*	A	H	10	25.2	55.2	70.2	[536]
1076	*Rubrobacter taiwanensis*	A	H	8	30.0	60.2	70.2	[536]
1077	*Rubrobacter xylanophilus*	A	H	9	30.0	60.3	70.3	[536]
1078	*Thiobacillus tepidarius*	A	A	7	35.0	45.0	52.0	[537]
1079	*Thermoanaerobacter sulfurigignens*	AN	H	17	32.1	63.1	71.9	[538]
1080	*Thermoanaerobacter uzonensis*	AN	H	18	30.1	61.1	67.0	[538]
1081	*Alicyclobacillus acidocaldarius*	FA	H	9	40.0	64.9	70.1	[539]
1082	*Alicyclobacillus acidoterrestris*	FA	H	7	35.1	50.0	60.2	[539]
1083	*Alicyclobacillus hesperidum*	FA	H	5	39.9	52.4	54.6	[539]
1084	*Alicyclobacillus sp.*	FA	H	8	39.9	62.4	67.5	[539]
1085	*Thiobacter subterraneus*	microA	A	7	34.9	54.8	62.1	[540]
1086	*Lactobacillus thermotolerans*	FA	H	10	19.6	42.0	49.9	[541]
1087	*Hydrogenivirga caldilitoris*	A	A	6	54.9	75.2	77.8	[542]
1088	*Thermovibrio ammonificans*	AN	A	5	60.0	74.8	80.1	[543]
1089	*Methanothermococcus okinawensis*	AN	A	7	39.7	62.6	75.0	[544]
1090	*Thermodesulfobacterium hydrogeniphilum*	AN	A	7	50.0	74.5	79.8	[545]
1091	*Thermocladium modestius*	FA	H	5	60.1	75.0	80.1	[546]
1092	*Desulfotomaculum putei*	AN	H	10	40.0	60.3	60.3	[547]
1093	*Bacillus infernus*	AN	H	4	45.1	59.6	59.6	[548]
1094	*Sulfurihydrogenibium yellowstonense*	A	H	6	55.0	70.1	78.0	[549]
1095	*Flavobacterium hibernum*	A	H	28	2.9	24.9	28.8	[550]
1096	*Thioreductor micantisoli*	AN	A	6	19.9	32.1	44.9	[551]
1097	*Methanococcus aeolicus*	AN	A	16	9.8	44.7	49.9	[552]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1098	*Aeropyrum pernix*	A	H	8	70.1	90.3	100.0	[553]
1099	*Balnearium lithotrophicum*	AN	A	7	45.2	75.4	80.3	[554]
1100	*Aeropyrum camini*	A	H	7	70.1	84.9	97.0	[555]
1101	*Selenomonas lipolytica*	AN	H	5	29.9	40.0	46.9	[556]
1102	*Nisaea denitrificans*	FA	H	6	15.1	30.0	44.0	[557]
1103	*Daphnia magna*	A	H	20	14.0	29.0	29.0	[558]
1104	*Spirochaeta sphaeroplastigenens*	AN	H	1	37.0	37.0	37.0	[559]
1105	*Thermothrix thioparus*	FA	M	5	61.7	69.8	76.6	[560]
1106	*Thermoanaerobacter ethanolicus*	AN	H	14	37.3	69.8	79.2	[561]
1107	*Halomonas elongata*	FA	H	2	20.0	40.0	40.0	[562]
1108	*Halomonas elongata*	FA	H	2	20.0	40.0	40.0	[562]
1109	*Halomonas elongata*	FA	H	1	30.0	30.0	30.0	[562]
1110	*Halomonas elongata*	FA	H	3	20.0	40.0	40.0	[562]
1111	*Halomonas elongata*	FA	H	3	20.0	40.0	40.0	[562]
1112	*Halomonas elongata*	FA	H	3	20.0	30.0	40.0	[562]
1113	*Halomonas elongata*	FA	H	2	30.0	40.0	40.0	[562]
1114	*Halomonas elongata*	FA	H	2	20.0	30.0	30.0	[562]
1115	*Halomonas elongata*	FA	H	2	20.0	30.0	30.0	[562]
1116	*Halomonas elongata*	FA	H	3	20.0	30.0	40.0	[562]
1117	*Halomonas elongata*	FA	H	3	20.0	30.0	40.0	[562]
1118	*Halomonas elongata*	FA	H	1	30.0	30.0	30.0	[562]
1119	*Halomonas elongata*	FA	H	2	20.0	30.0	30.0	[562]
1120	*Halomonas elongata*	FA	H	2	20.0	30.0	30.0	[562]
1121	*Halomonas elongata*	FA	H	3	20.0	30.0	40.0	[562]
1122	*Halomonas elongata*	FA	H	3	20.0	30.0	40.0	[562]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1123	*Halomonas elongata*	FA	H	1	30.0	30.0	30.0	[562]
1124	*Asterionella formosa*	A	A	8	2.0	17.0	25.0	[563]
1125	*Staurastrum cingulum*	A	A	9	2.0	30.0	30.0	[563]
1126	*Tychonema bourrellyi*	A	A	6	8.0	20.0	25.0	[563]
1127	*Cryptomonas marssonii*	A	A	8	2.0	11.0	25.0	[563]
1128	*Dinobryon divergens*	A	A	8	2.0	17.0	25.0	[563]
1129	*Ceratium furcoides*	A	A	5	11.0	20.0	25.0	[563]
1130	*Nannochloropsis oceanica*	A	A	7	14.5	29.0	32.3	[564]
1131	*Porphyridium purpureum*	A	A	7	5.0	20.1	35.0	[565]
1132	*Scenedesmus sp.*	A	A	4	10.0	25.0	30.0	[566]
1133	*Phaeodactylum tricornutum*	A	A	4	5.0	19.9	19.9	[567]
1134	*Phaeodactylum tricornutum*	A	A	6	4.8	19.9	30.0	[567]
1135	*Deinococcus geothermalis*	A	H	7	30.0	50.1	57.2	[568]
1136	*Deinococcus murrayi*	A	H	6	29.9	50.1	52.5	[568]
1137	*Escherichia coli*	FA	H	11	9.8	36.5	44.7	[569]
1138	*Escherichia coli*	FA	H	10	10.0	34.8	42.7	[569]
1139	*Salmonella enterica*	FA	H	9	9.9	37.0	43.1	[569]
1140	*Salmonella enterica*	FA	H	10	9.8	35.2	42.9	[569]
1141	*Marinithermus hydrothermalis*	A	H	8	44.9	67.6	72.6	[570]
1142	*Fervidobacterium pennivorans*	AN	H	7	40.3	69.9	80.3	[571]
1143	*Thermotoga maritima*	AN	H	4	74.9	80.0	86.0	[572]
1144	*Methanosaeta harundinacea*	AN	H	1	37.0	37.0	37.0	[573]
1145	*Geotoga petraea*	AN	H	6	30.0	50.0	55.0	[574]
1146	*Geotoga subterranea*	AN	H	7	30.2	45.0	59.9	[574]
1147	*Petrotoga miotherma*	AN	H	7	35.0	55.0	65.0	[574]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1148	*Escherichia coli*	FA	H	2	23.0	37.0	37.0	[575]
1149	*Escherichia coli*	FA	H	2	23.0	37.0	37.0	[575]
1150	*Escherichia coli*	FA	H	2	37.0	37.0	37.0	[575]
1151	*Escherichia coli*	FA	H	1	37.0	37.0	37.0	[575]
1152	*Escherichia coli*	FA	H	1	23.0	23.0	23.0	[575]
1153	*Bacillus subtilis*	FA	H	2	23.0	37.0	37.0	[575]
1154	*Bacillus subtilis*	FA	H	2	23.0	37.0	37.0	[575]
1155	*Bacillus subtilis*	FA	H	1	23.0	23.0	23.0	[575]
1156	*Bacillus subtilis*	FA	H	2	23.0	37.0	37.0	[575]
1157	*Bacillus subtilis*	FA	H	1	23.0	23.0	23.0	[575]
1158	*Thermosipho africanus*	AN	H	7	50.0	75.1	77.1	[576]
1159	*Uncinula necator*	A	H	4	19.0	26.0	30.0	[577]
1160	*Caldicellulosiruptor owensensis*	AN	H	7	49.8	75.0	80.1	[578]
1161	*Caldicellulosiruptor obsidiansis*	AN	H	6	64.9	77.7	83.9	[579]
1162	*Dictyoglomus sp.*	AN	H	5	54.9	67.8	75.0	[580]
1163	*Desulfotomaculum alkaliphilum*	AN	H	6	29.4	50.0	59.4	[581]
1164	*Echinogammarus marinus*	A	H	3	10.0	20.0	20.0	[582]
1165	*Echinogammarus marinus*	A	H	3	10.0	20.0	20.0	[582]
1166	*Echinogammarus marinus*	A	H	3	10.0	20.0	20.0	[582]
1167	*Echinogammarus marinus*	A	H	3	10.0	20.0	20.0	[582]
1168	*Hyalella azteca*	A	H	3	15.0	25.0	25.0	[583]
1169	*Hyalella azteca*	A	H	5	20.0	20.0	20.0	[583]
1170	*Geobacillus sp.*	FA	H	5	45.0	70.1	73.1	[584]
1171	*Geobacillus sp.*	FA	H	5	45.1	73.0	73.0	[584]
1172	*Geobacillus sp.*	FA	H	5	45.0	70.1	73.1	[584]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1173	*Bacillus sp.*	A	H	4	55.1	65.1	70.0	[585]
1174	*Metallosphaera prunae*	A	M	6	55.0	74.9	79.9	[586]
1175	*Metallosphaera sedula*	A	M	7	50.3	75.2	80.2	[587]
1176	*Thermoanaerobacterium aotearoense*	AN	H	14	32.2	62.6	65.8	[588]
1177	*Thalassiosira pseudonana*	A	A	3	15.7	23.8	23.8	[589]
1178	*Thalassiosira pseudonana*	A	A	3	15.8	23.8	23.8	[589]
1179	*Thalassiosira pseudonana*	A	A	4	11.9	23.8	23.8	[589]
1180	*Thalassiosira pseudonana*	A	A	3	15.8	24.0	24.0	[589]
1181	*Thalassiosira pseudonana*	A	A	4	11.9	24.0	24.0	[589]
1182	*Thalassiosira pseudonana*	A	A	4	12.1	24.2	24.2	[589]
1183	*Thalassiosira pseudonana*	A	A	4	11.8	23.9	23.9	[589]
1184	*Thalassiosira pseudonana*	A	A	4	12.1	24.2	24.2	[589]
1185	*Thalassiosira pseudonana*	A	A	4	12.0	24.2	24.2	[589]
1186	*Thalassiosira pseudonana*	A	A	3	16.0	23.9	23.9	[589]
1187	*Thalassiosira pseudonana*	A	A	4	12.0	24.0	24.0	[589]
1188	*Thalassiosira pseudonana*	A	A	4	12.1	24.0	24.0	[589]
1189	*Thalassiosira pseudonana*	A	A	3	16.1	24.0	24.0	[589]
1190	*Thalassiosira pseudonana*	A	A	4	11.9	23.9	23.9	[589]
1191	*Thalassiosira nordenskioldii*	A	A	4	0.0	5.0	15.0	[590]
1192	*Skeletonema costatum*	A	A	7	5.0	25.0	25.0	[591]
1193	*Olisthodiscus luteus*	A	A	6	10.0	25.0	25.0	[591]
1194	*Gonyaulax tamarensis*	A	A	6	5.0	15.0	20.0	[591]
1195	*Thalassiosira rotula*	A	A	2	15.3	15.3	20.1	[592]
1196	*Thalassiosira rotula*	A	A	3	10.1	20.3	20.3	[592]
1197	*Thalassiosira rotula*	A	A	4	10.2	19.9	25.5	[592]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1198	*Thalassiosira rotula*	A	A	5	5.6	19.9	25.1	[592]
1199	*Thalassiosira rotula*	A	A	5	5.4	25.7	25.7	[592]
1200	*Thalassiosira rotula*	A	A	6	0.4	20.5	25.3	[592]
1201	*Thalassiosira rotula*	A	A	5	6.4	26.6	26.6	[592]
1202	*Thalassiosira rotula*	A	A	6	1.3	26.4	26.4	[592]
1203	*Thalassiosira rotula*	A	A	6	5.2	25.1	30.4	[592]
1204	*Thalassiosira rotula*	A	A	6	0.2	25.0	25.0	[592]
1205	*Thalassiosira rotula*	A	A	6	5.6	26.6	31.0	[592]
1206	*Thalassiosira rotula*	A	A	6	1.5	20.9	25.3	[592]
1207	*Thalassiosira rotula*	A	A	6	4.9	19.8	30.2	[592]
1208	*Thalassiosira rotula*	A	A	5	0.0	19.8	19.8	[592]
1209	*Detonula confervacea*	A	A	3	2.0	12.0	12.0	[593]
1210	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1211	*Detonula confervacea*	A	A	3	2.0	12.0	12.0	[593]
1212	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1213	*Detonula confervacea*	A	A	3	2.0	12.0	12.0	[593]
1214	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1215	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1216	*Detonula confervacea*	A	A	1	2.0	2.0	2.0	[593]
1217	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1218	*Detonula confervacea*	A	A	3	2.0	12.0	12.0	[593]
1219	*Detonula confervacea*	A	A	3	2.0	12.0	12.0	[593]
1220	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1221	*Detonula confervacea*	A	A	1	2.0	2.0	2.0	[593]
1222	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1223	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1224	*Detonula confervacea*	A	A	3	2.0	12.0	12.0	[593]
1225	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1226	*Detonula confervacea*	A	A	1	2.0	2.0	2.0	[593]
1227	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1228	*Detonula confervacea*	A	A	3	2.0	12.0	12.0	[593]
1229	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1230	*Detonula confervacea*	A	A	2	2.0	2.0	7.0	[593]
1231	*Detonula confervacea*	A	A	1	2.0	2.0	2.0	[593]
1232	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1233	*Detonula confervacea*	A	A	2	2.0	7.0	7.0	[593]
1234	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1235	*Detonula confervacea*	A	A	2	2.0	7.0	7.0	[593]
1236	*Detonula confervacea*	A	A	1	2.0	2.0	2.0	[593]
1237	*Detonula confervacea*	A	A	3	2.0	7.0	12.0	[593]
1238	*Detonula confervacea*	A	A	2	2.0	7.0	7.0	[593]
1239	*Detonula confervacea*	A	A	1	2.0	2.0	2.0	[593]
1240	*Detonula confervacea*	A	A	2	2.0	2.0	7.0	[593]
1241	*Detonula confervacea*	A	A	2	2.0	7.0	7.0	[593]
1242	*Leptocylindrus danicus*	A	A	4	5.0	19.8	19.8	[594]
1243	*Skeletonema costatum*	A	A	9	0.0	22.0	22.0	[595]
1244	*Sulfophobococcus zilligii*	AN	H	5	70.1	90.3	94.7	[596]
1245	*Thermobaculum terrenum*	A	H	9	42.9	66.8	74.9	[597]
1246	*Bacillus beveridgei*	FA	H	10	4.8	38.2	64.9	[598]
1247	*Bellilinea caldifistulae*	AN	H	1	55.0	55.0	55.0	[599]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1248	*Longilinea arvoryzae*	AN	H	1	37.0	37.0	37.0	[599]
1249	*Acaryochloris marina*	A	A	6	15.0	29.8	40.1	[600]
1250	*Cyclotella nana*	A	A	2	14.6	19.9	19.9	[601]
1251	*Cyclotella nana*	A	A	3	9.3	19.9	19.9	[601]
1252	*Cyclotella nana*	A	A	3	9.3	19.8	19.8	[601]
1253	*Cyclotella nana*	A	A	3	9.3	14.6	19.8	[601]
1254	*Cyclotella nana*	A	A	3	9.5	19.9	19.9	[601]
1255	*Detonula confervacea*	A	A	2	9.3	9.3	14.5	[601]
1256	*Thermogladius shockii*	AN	H	4	64.8	85.0	85.0	[602]
1257	*Methanothermobacter crinale*	AN	A	6	55.0	64.8	80.1	[603]
1258	*Pseudomonas thermotolerans*	A	H	6	25.1	40.3	50.3	[604]
1259	*Thermomonas haemolytica*	A	H	7	25.0	45.2	55.2	[604]
1260	*Thermomonas hydrothermalis*	A	H	11	29.9	50.1	62.5	[604]
1261	*Pyrobaculum oguniense*	FA	H	7	70.5	90.7	97.5	[605]
1262	*Sulfolobus hakonensis*	A	M	5	55.2	70.1	75.1	[606]
1263	*Thermothrix azorensis*	A	A	5	65.0	78.0	86.0	[607]
1264	*Hydrogenophilus hirschii*	AN	A	7	50.0	62.5	67.4	[608]
1265	*Stygiolobus azoricus*	AN	A	9	59.9	80.4	88.6	[609]
1266	*Methanobacterium Bryantii*	AN	H	7	10.0	28.2	45.9	[610]
1267	*Methanobacterium veterum*	AN	H	6	20.2	37.1	50.2	[610]
1268	*Thiomicrospira thermophila*	microA	M	8	15.0	40.0	55.0	[611]
1269	*Sulfolobus yangmingensis*	A	M	7	65.0	79.8	94.9	[612]
1270	*Methanopyrus kandleri*	AN	A	5	85.3	100.1	110.2	[613]
1271	*Methanocorpusculum bavaricum*	AN	H	4	13.9	37.3	37.3	[614]
1272	*Methanocorpusculum sinsese*	AN	H	5	21.4	29.7	40.2	[614]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1273	*Thiobacillus prosperus*	A	A	5	25.1	37.0	41.0	[615]
1274	*Thiobacillus prosperus*	A	A	6	23.1	32.8	41.1	[615]
1275	*Thiobacillus prosperus*	A	A	4	23.1	36.9	36.9	[615]
1276	*Methanobacterium thermoaggregans*	AN	A	5	45.3	65.5	70.6	[616]
1277	*Acidilobus aceticus*	AN	H	5	74.9	84.9	89.0	[617]
1278	*Sulfolobus tengchongensis*	A	H	7	65.0	85.2	95.0	[618]
1279	*Magnetospira thiophila*	microA	M	1	25.0	25.0	25.0	[619]
1280	*Stetteria hydrogenophila*	AN	M	9	80.0	95.2	102.0	[620]
1281	*Methanobacterium thermoautotrophicum*	AN	A	6	65.5	80.1	90.6	[621]
1282	*Methanobacterium thermoautotrophicum*	AN	A	1	60.8	60.8	60.8	[621]
1283	*Methanothermus fervidus*	AN	A	6	50.2	65.2	75.6	[621]
1284	*Sulfolobus metallicus*	A	A	6	49.9	70.0	75.2	[622]
1285	*Sulfolobus metallicus*	A	A	5	49.9	65.0	70.1	[622]
1286	*Acinetobacter calcoaceticus*	A	H	29	16.4	32.9	39.0	[623]
1287	*Ammonifex degensii*	AN	M	5	63.9	69.9	75.8	[624]
1288	*Methanobacterium espanolae*	AN	A	5	20.2	35.3	40.1	[625]
1289	*Clostridium celevecrescens*	AN	H	4	19.8	35.3	35.3	[626]
1290	*Methanohalophilus oregonense*	AN	A	6	20.1	35.4	41.3	[627]
1291	*Thermus brockianus*	A	H	6	50.3	65.4	75.3	[628]
1292	*Thermus igniterrae*	A	H	7	50.3	70.3	80.1	[628]
1293	*Thermus scotoductus*	A	H	6	50.0	70.3	75.3	[628]
1294	*Thermus sp.*	A	H	6	50.2	65.1	75.4	[628]
1295	*Bacillus halodenitrificans*	FA	H	12	10.9	37.8	44.7	[629]
1296	*Methanosarcina semesiae*	AN	A	7	18.1	33.0	38.9	[630]
1297	*Methanosarcina semesiae*	AN	A	7	20.1	31.0	37.0	[630]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1298	*Methanosarcina semesiae*	AN	A	7	18.0	37.2	39.2	[630]
1299	*Prochlorothrix hollandica*	A	A	4	19.4	24.6	29.8	[631]
1300	*Methanohalophilus portucalensis*	AN	A	4	32.1	42.1	50.9	[632]
1301	*Methanohalophilus portucalensis*	AN	A	3	32.0	42.1	42.1	[632]
1302	*Methanohalophilus portucalensis*	AN	A	3	32.0	39.5	42.0	[632]
1303	*Methanohalophilus portucalensis*	AN	A	4	25.0	37.0	42.0	[632]
1304	*Methanohalophilus portucalensis*	AN	A	4	36.9	42.0	47.9	[632]
1305	*Methanomethylovorans thermophila*	AN	H	1	50.0	50.0	50.0	[633]
1306	*Bacillus infernus*	AN	H	4	45.0	60.2	60.2	[634]
1307	*Thermus chliarophilus*	FA	H	6	35.2	50.5	60.4	[635]
1308	*Thermus ruber*	FA	H	7	35.3	60.2	65.0	[635]
1309	*Thermus silvanus*	FA	H	6	40.2	55.5	65.6	[635]
1310	*Nitratifractor salsuginis*	microA	A	4	28.0	36.8	36.8	[636]
1311	*Nitratiruptor tergarcus*	microA	A	4	40.0	55.1	55.1	[636]
1312	*Sulfobacillus thermotolerans*	FA	M	9	19.7	40.1	60.1	[637]
1313	*Methanocella paludicola*	AN	H	1	36.0	36.0	36.0	[638]
1314	*Methanomicrococcus blatticola*	AN	H	4	23.5	39.1	39.1	[639]
1315	*Anacystis nidulans*	A	A	8	25.0	41.3	44.2	[640]
1316	*Anabaena variabilis*	A	A	5	25.0	34.8	37.5	[640]
1317	*Nostoc muscorum*	A	A	4	25.1	32.5	34.8	[640]
1318	*Methanococcoides methylutens*	AN	H	5	15.0	34.8	34.8	[641]
1319	*Pyrodictium abyssi*	AN	H	12	79.9	96.7	109.9	[642]
1320	*Clostridium thermosuccinogenes*	AN	H	7	42.9	71.6	71.6	[643]
1321	*Clostridium thermosuccinogenes*	AN	H	4	43.0	57.9	57.9	[643]
1322	*Haloanaerobacter chitinovorans*	AN	H	6	24.9	45.0	50.1	[644]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1323	*Haloanaerobacter chitinovorans*	AN	H	6	25.0	45.1	50.0	[644]
1324	*Geothermobacterium ferrireducens*	AN	A	8	65.0	90.0	100.0	[645]
1325	*Firmicutes sp.*	AN	A	10	50.9	65.3	70.1	[646]
1326	*Firmicutes sp.*	AN	A	9	57.2	72.4	78.0	[646]
1327	*Magnetospirillum bellicus*	FA	H	5	19.8	39.9	41.9	[647]
1328	*Magnetospirillum bellicus*	FA	H	7	10.2	41.8	41.8	[647]
1329	*Methanolobus chelungpuianus*	AN	A	3	23.8	37.2	37.2	[648]
1330	*Methanobacterium palustre*	AN	A	4	21.9	37.1	45.1	[648]
1331	*Profundimonas piezophila*	FA	H	5	4.0	8.0	14.0	[649]
1332	*Caldicellulosiruptor lactoaceticus*	AN	H	5	49.9	68.2	74.9	[650]
1333	*Methanococcus maripaludis*	AN	A	9	18.2	37.2	45.9	[651]
1334	*Desulfobacterium autotrophicum*	AN	A	19	-0.5	28.0	29.5	[652]
1335	*Microcella putealis*	A	H	6	15.0	30.1	40.2	[653]
1336	*Microcella putealis*	A	H	6	15.1	35.5	40.3	[653]
1337	*Microcella putealis*	A	H	6	15.1	35.3	40.2	[653]
1338	*Chimaereicella alkaliphila*	A	H	5	14.9	29.9	34.8	[654]
1339	*Chimaereicella alkaliphila*	A	H	5	15.0	29.7	34.9	[654]
1340	*Chimaereicella alkaliphila*	A	H	5	15.0	29.8	35.0	[654]
1341	*Methanospirillum stamsii*	AN	A	7	4.9	29.9	37.0	[655]
1342	*Flavobacterium segetis*	A	H	5	5.3	12.9	17.8	[656]
1343	*Flavobacterium weaverense*	A	H	5	5.3	15.6	17.9	[656]
1344	*Colwellia piezophila*	FA	H	1	4.0	4.0	4.0	[657]
1345	*Colwellia piezophila*	FA	H	1	4.0	4.0	4.0	[657]
1346	*Colwellia piezophila*	FA	H	2	4.0	4.0	10.0	[657]
1347	*Colwellia piezophila*	FA	H	2	4.0	4.0	10.0	[657]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1348	*Colwellia piezophila*	FA	H	2	4.0	10.0	10.0	[657]
1349	*Colwellia piezophila*	FA	H	2	4.0	10.0	10.0	[657]
1350	*Colwellia piezophila*	FA	H	2	4.0	10.0	10.0	[657]
1351	*Colwellia piezophila*	FA	H	2	4.0	4.0	10.0	[657]
1352	*Thiobacillus sp.*	A	A	6	0.1	18.4	30.0	[658]
1353	*Thiobacillus thioparus*	FA	A	5	10.2	30.2	35.0	[658]
1354	*Clostridium hastiforme*	AN	H	4	4.4	15.0	15.0	[659]
1355	*Pseudomonas sp.*	FA	H	6	0.0	10.5	24.9	[660]
1356	*Psychromonas sp.*	FA	H	6	-0.0	5.5	19.6	[660]
1357	*Shewanella sp.*	FA	H	9	0.1	15.5	25.1	[660]
1358	*Herminiimonas sp.*	A	H	5	3.6	9.2	14.1	[660]
1359	*Arcobacter sp.*	A	H	6	-0.2	10.4	25.4	[660]
1360	*Listeria monocytogenes*	FA	H	23	-2.0	34.0	42.0	[661]
1361	*Bacterial str.*	AN	H	17	-1.1	18.9	34.2	[662]
1362	*Psychrobacter muriicola*	A	H	6	4.9	17.9	36.8	[663]
1363	*Clostridium bowmanii*	AN	H	11	8.8	11.6	18.7	[664]
1364	*Clostridium estertheticum*	AN	H	7	3.1	6.8	11.5	[664]
1365	*Clostridium frigoris*	AN	H	7	3.0	5.4	11.5	[664]
1366	*Clostridium lacusfryxellense*	AN	H	8	3.1	10.5	11.4	[664]
1367	*Clostridium psychrophilum*	AN	H	6	2.9	4.5	10.2	[664]
1368	*Salmo gairdneri*	A	H	12	8.1	15.5	22.3	[665]
1369	*Chaetoceros simplex*	A	A	4	13.3	25.2	25.2	[666]
1370	*Coscinodiscus sp.*	A	A	3	9.9	16.4	16.4	[666]
1371	*Cyclotella cryptica*	A	A	5	10.7	25.6	25.6	[666]
1372	*Ditylum brightwellii*	A	A	5	9.3	20.7	25.5	[666]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1373	*Phaeodactylum tricornutum*	A	A	6	8.6	20.8	25.6	[666]
1374	*Skeletonema costatum*	A	A	5	9.0	20.0	24.8	[666]
1375	*Thalassiosira eccentrica*	A	A	5	9.4	24.7	24.7	[666]
1376	*Thalassiosira weissflogii*	A	A	5	9.7	14.2	26.0	[666]
1377	*Isochrysis galbana*	A	A	4	13.0	25.1	25.1	[666]
1378	*Rhodomonas salina*	A	A	5	9.1	16.1	25.1	[666]
1379	*Vibrio sp.*	FA	H	4	1.0	7.0	10.0	[667]
1380	*Arthrobacter glacialis*	A	H	7	0.3	14.6	16.3	[668]
1381	*Arthrobacter glacialis*	A	H	9	1.7	13.4	20.4	[668]
1382	*Arthrobacter sp.*	A	H	9	0.2	28.4	34.5	[668]
1383	*Arthrobacter sp.*	A	H	10	4.3	28.5	34.3	[668]
1384	*Pseudomonas sp.*	A	H	9	2.4	25.5	35.4	[668]
1385	*Bacillus circulans*	FA	H	12	0.3	24.8	34.7	[669]
1386	*Bacillus coagulans*	FA	H	9	6.1	29.8	39.6	[669]
1387	*Bacillus coagulans*	FA	H	12	0.6	30.0	34.7	[669]
1388	*Bacillus laterosporus*	FA	H	8	6.2	36.5	40.1	[669]
1389	*Thermodesulfobacterium hveragerdense*	AN	A	4	60.0	70.0	74.2	[670]
1390	*Thermodesulfovibrio islandicus*	AN	A	5	50.1	65.4	70.2	[670]
1391	*Desulfovibrio capillatus*	AN	H	6	19.9	39.4	45.1	[671]
1392	*Methanococcoides alaskense*	AN	H	6	15.0	25.0	28.0	[672]
1393	*Methanosarcina baltica*	AN	H	7	10.0	20.0	25.0	[672]
1394	*Clostridium thermoalcaliphilum*	AN	H	18	26.6	49.5	57.0	[673]
1395	*Anaerobaculum mobile*	AN	H	6	35.0	54.9	65.0	[674]
1396	*Clostridium paradoxum*	AN	H	15	35.4	55.5	62.0	[675]
1397	*Clostridium paradoxum*	AN	H	19	30.0	55.5	62.1	[675]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1398	*Deferribacter thermophilus*	AN	H	6	49.9	59.9	65.1	[676]
1399	*Bacillus sp.*	FA	H	24	1.8	25.1	31.7	[677]
1400	*Gram-negative str.*	A	H	19	3.1	27.0	31.6	[677]
1401	*Thermoanaerobacter brockii*	AN	H	7	45.1	55.0	74.6	[678]
1402	*Dethiosulfovibrio peptidovorans*	AN	H	7	24.8	42.1	44.9	[679]
1403	*Methanocalculus halotolerans*	AN	A	5	28.9	36.9	44.8	[680]
1404	*Haloanaerobium alcaliphilum*	AN	H	7	19.9	36.4	49.7	[681]
1405	*Haloanaerobium lacusroseus*	AN	H	7	25.2	40.0	45.3	[682]
1406	*Thermotoga hypogea*	AN	H	8	56.5	69.9	89.8	[683]
1407	*Methanosarcina siciliae*	AN	H	5	15.0	35.1	35.1	[684]
1408	*Thermanaerovibrio velox*	AN	H	6	45.1	59.9	70.1	[685]
1409	*Thermoanaerobacter siderophilus*	AN	H	11	38.8	68.6	78.0	[686]
1410	*Thermoanaerobacter yonseiensis*	AN	H	7	50.0	74.9	82.8	[687]
1411	*Thermanaeromonas toyohensis*	AN	H	5	55.0	70.0	72.9	[688]
1412	*Methanocalculus taiwanensis*	AN	A	2	31.9	37.1	37.1	[689]
1413	*Methanocalculus taiwanensis*	AN	A	8	24.7	37.1	41.9	[689]
1414	*Brochothrix thermosphacta*	FA	H	6	1.6	11.7	14.9	[690]
1415	*Chlorella vulgaris*	A	A	7	10.0	30.1	40.1	[691]
1416	*Nautilia abyssi*	AN	A	7	33.0	60.0	64.9	[692]
1417	*Pseudomonas fluorescens*	A	H	11	0.0	29.8	31.7	[693]
1418	*Aeromonas hydrophila*	FA	H	9	0.5	18.4	44.5	[694]
1419	*Aeromonas hydrophila*	FA	H	9	15.1	35.2	56.8	[694]
1420	*Aeromonas hydrophila*	FA	H	8	1.9	19.8	39.4	[694]
1421	*Aeromonas salmonicida*	FA	H	6	13.3	28.2	38.5	[694]
1422	*Aeromonas shigelloides*	FA	H	10	9.2	33.6	55.9	[694]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1423	*Aeromonas shigelloides*	FA	H	10	-0.0	33.0	44.4	[694]
1424	*Alicyclobacillus sp.*	A	M	14	39.0	61.9	66.9	[695]
1425	*Desulfomicrobium thermophilum*	AN	H	4	37.0	55.2	55.2	[696]
1426	*Bacillus sp.*	A	H	7	45.1	65.0	73.0	[697]
1427	*Sulfobacillus sibiricus*	FA	M	6	30.1	55.0	60.1	[698]
1428	*Protogonyaulax tamarensis*	A	A	3	8.0	16.0	16.0	[699]
1429	*Cyanidium caldarium*	A	A	9	24.0	45.0	51.0	[700]
1430	*Cyanidium caldarium*	A	A	5	33.0	45.0	45.0	[700]
1431	*Vibrio sp.*	FA	H	3	0.0	15.0	15.0	[701]
1432	*Vibrio sp.*	FA	H	3	0.0	15.0	15.0	[701]
1433	*Vibrio sp.*	FA	H	3	0.0	15.0	15.0	[701]
1434	*Vibrio sp.*	FA	H	4	0.0	15.0	23.0	[701]
1435	*Vibrio sp.*	FA	H	3	0.0	15.0	15.0	[701]
1436	*Vibrio sp.*	FA	H	4	0.0	15.0	23.0	[701]
1437	*Vibrio sp.*	FA	H	4	0.0	15.0	23.0	[701]
1438	*Vibrio sp.*	FA	H	3	0.0	15.0	15.0	[701]
1439	*Vibrio sp.*	FA	H	4	0.0	15.0	23.0	[701]
1440	*Chlamydomonas alpina*	A	A	8	-1.0	12.5	18.0	[702]
1441	*Chlamydomonas globosa*	A	A	7	5.0	18.0	20.0	[702]
1442	*Chlamydomonas intermedia*	A	A	8	-1.0	18.0	18.0	[702]
1443	*Chlamydomonas subcaudata*	A	A	8	-1.0	12.5	18.0	[702]
1444	*Stichococcus sp.*	A	A	6	4.0	7.5	30.0	[703]
1445	*Navicula sp.*	A	A	6	4.0	4.0	30.0	[703]
1446	*Chlorella sp.*	A	A	6	4.0	20.0	30.0	[703]
1447	*Chlorella sp.*	A	A	6	4.0	20.0	30.0	[703]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1448	*Klebsormidium sp.*	A	A	6	4.0	14.0	30.0	[703]
1449	*Chlamydomonas sp.*	A	A	6	4.0	9.0	30.0	[703]
1450	*Chlamydomonas sp.*	A	A	5	4.1	18.2	32.1	[704]
1451	*Chlamydomonas sp.*	A	A	6	13.2	28.2	38.0	[704]
1452	*Chlorella sp.*	A	A	5	3.9	17.9	31.8	[704]
1453	*Chlorella sp.*	A	A	6	13.0	33.1	38.1	[704]
1454	*Amphiprora sp.*	A	A	6	12.6	27.8	37.9	[704]
1455	*Navicula sp.*	A	A	5	3.8	10.8	31.8	[704]
1456	*Hantzschia amphyoxis*	A	A	6	6.0	18.0	25.0	[705]
1457	*Pseudomonas fluorescens*	A	H	6	4.0	25.0	32.0	[706]
1458	*Pseudomonas fluorescens*	A	H	6	4.0	32.0	32.0	[706]
1459	*Pseudomonas fluorescens*	A	H	6	4.0	25.0	32.0	[706]
1460	*Pseudomonas fluorescens*	A	H	6	4.0	25.0	32.0	[706]
1461	*Pseudomonas fluorescens*	A	H	6	4.0	25.0	32.0	[706]
1462	*Pseudomonas fluorescens*	A	H	6	4.0	25.0	32.0	[706]
1463	*Clostridium thermohydrosulfuricum*	AN	H	17	47.9	68.0	75.7	[707]
1464	*Synura sphagnicola*	A	A	7	5.0	15.0	20.0	[708]
1465	*Synura sphagnicola*	A	A	5	5.0	10.0	15.0	[708]
1466	*Synura sphagnicola*	A	A	6	5.0	10.0	17.5	[708]
1467	*Synura sphagnicola*	A	A	6	5.0	10.0	17.5	[708]
1468	*Synura sphagnicola*	A	A	7	5.0	12.5	20.0	[708]
1469	*Synura sphagnicola*	A	A	7	5.0	15.0	20.0	[708]
1470	*Synura sphagnicola*	A	A	7	5.0	12.5	20.0	[708]
1471	*Synura sphagnicola*	A	A	7	5.0	15.0	20.0	[708]
1472	*Escherichia coli*	FA	H	5	10.0	30.0	30.0	[709]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1473	*Pseudomonas aeruginosa*	A	H	5	10.0	30.0	30.0	[709]
1474	*Pseudomonas sp.*	A	H	6	5.0	30.0	30.0	[709]
1475	*Pseudomonas sp.*	A	H	6	5.0	30.0	30.0	[709]
1476	*Pseudomonas sp.*	A	H	6	5.0	30.0	30.0	[709]
1477	*Pseudomonas sp.*	A	H	6	5.0	30.0	30.0	[709]
1478	*Pseudomonas sp.*	A	H	6	5.0	30.0	30.0	[709]
1479	*Pseudomonas sp.*	A	H	7	5.0	30.0	37.0	[709]
1480	*Coliform sp.*	A	H	7	5.0	37.0	37.0	[709]
1481	*Coliform sp.*	A	H	6	10.0	37.0	37.0	[709]
1482	*Coliform sp.*	A	H	5	10.0	30.0	30.0	[709]
1483	*Coliform sp.*	A	H	6	5.0	30.0	30.0	[709]
1484	*Coliform sp.*	A	H	6	10.0	37.0	37.0	[709]
1485	*Psychrophilic coliform*	A	H	5	10.0	30.0	30.0	[709]
1486	*Psychrophilic coliform*	A	H	1	5.0	5.0	5.0	[709]
1487	*Synechocystis sp.*	A	A	8	28.0	40.0	44.0	[710]
1488	*Synechocystis sp.*	A	A	7	30.0	36.0	44.0	[710]
1489	*Synechocystis sp.*	A	A	10	32.9	42.0	44.0	[710]
1490	*Synechocystis sp.*	A	A	14	33.0	42.5	44.5	[710]
1491	*Synechocystis sp.*	A	A	12	33.0	40.5	43.5	[710]
1492	*Synechocystis sp.*	A	A	14	33.0	42.4	45.0	[710]
1493	*Synechocystis sp.*	A	A	15	32.9	37.0	45.0	[710]
1494	*Synechocystis sp.*	A	A	13	33.0	40.5	43.5	[710]
1495	*Synechocystis sp.*	A	A	6	28.0	36.0	40.0	[710]
1496	*Daphnia parvula*	A	H	3	9.9	25.0	25.0	[711]
1497	*Daphnia parvula*	A	H	3	10.0	25.0	25.0	[711]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1498	*Daphnia parvula*	A	H	3	10.0	25.1	25.1	[711]
1499	*Daphnia parvula*	A	H	3	8.0	25.0	25.0	[711]
1500	*Daphnia parvula*	A	H	3	7.9	25.0	25.0	[711]
1501	*Nitzschia seriata*	A	A	9	-1.6	10.0	12.0	[712]
1502	*Chaetoceros deflandrei*	A	A	6	2.0	7.0	15.0	[713]
1503	*Chaetoceros deflandrei*	A	A	6	2.0	5.1	15.0	[713]
1504	*Chaetoceros deflandrei*	A	A	6	2.1	7.0	14.9	[713]
1505	*Chaetoceros deflandrei*	A	A	5	2.0	15.0	15.0	[713]
1506	*Corethron criophilum*	A	A	4	0.1	4.0	6.0	[713]
1507	*Corethron criophilum*	A	A	4	0.1	4.0	6.0	[713]
1508	*Corethron criophilum*	A	A	3	0.2	4.0	4.0	[713]
1509	*Corethron criophilum*	A	A	4	0.1	4.0	6.0	[713]
1510	*Nitzchia kerguelensis*	A	A	4	0.1	4.1	7.0	[713]
1511	*Nitzchia kerguelensis*	A	A	4	0.1	4.0	7.0	[713]
1512	*Nitzchia kerguelensis*	A	A	4	0.1	4.0	7.0	[713]
1513	*Nitzchia kerguelensis*	A	A	4	0.1	4.1	7.0	[713]
1514	*Nitzschia cylindrus*	A	A	5	0.1	2.5	4.5	[713]
1515	*Nitzschia cylindrus*	A	A	5	0.0	2.5	4.5	[713]
1516	*Nitzschia cylindrus*	A	A	5	0.1	2.5	4.5	[713]
1517	*Nitzschia cylindrus*	A	A	5	0.0	2.5	4.5	[713]
1518	*Nitzschia turgiduloides*	A	A	4	1.0	3.1	8.0	[713]
1519	*Nitzschia turgiduloides*	A	A	5	1.0	3.0	8.0	[713]
1520	*Nitzschia turgiduloides*	A	A	5	1.1	5.0	8.0	[713]
1521	*Nitzschia turgiduloides*	A	A	5	1.0	3.1	8.1	[713]
1522	*Stellarima microtrias*	A	A	3	1.0	4.0	7.0	[713]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1523	*Stellarima microtrias*	A	A	3	1.0	4.0	7.0	[713]
1524	*Stellarima microtrias*	A	A	3	1.0	4.0	7.0	[713]
1525	*Stellarima microtrias*	A	A	3	1.0	4.0	7.0	[713]
1526	*Synedra sp.*	A	A	3	1.0	5.0	7.1	[713]
1527	*Synedra sp.*	A	A	3	1.1	5.0	7.0	[713]
1528	*Synedra sp.*	A	A	3	1.0	5.0	7.0	[713]
1529	*Synedra sp.*	A	A	3	1.0	5.0	7.1	[713]
1530	*Chaetoceros sp.*	A	A	2	0.0	10.0	10.0	[714]
1531	*Chaetoceros sp.*	A	A	2	0.0	10.0	10.0	[714]
1532	*Navicula sp.*	A	A	1	10.0	10.0	10.0	[714]
1533	*Nitzschia sp.*	A	A	2	0.0	10.0	10.0	[714]
1534	*Kosmotoga arenicorallina*	A	H	4	50.1	60.1	65.1	[715]
1535	*Thermomicrobium fosteri*	A	H	21	50.0	60.0	65.1	[716]
1536	*Desulfurobacterium thermolithotrophum*	AN	A	9	37.1	69.5	74.7	[717]
1537	*Moorella gycerini*	AN	H	11	43.0	58.0	65.0	[718]
1538	*Methanogenium frittonii*	AN	A	14	32.3	57.4	61.8	[719]
1539	*Methanogenium cariaci*	AN	A	4	19.9	37.4	37.4	[720]
1540	*Methanogenium marisnigri*	AN	A	5	24.8	37.5	45.0	[720]
1541	*Methanogenium tatii*	AN	A	5	24.8	39.9	44.9	[720]
1542	*Sporomusa acidovorans*	AN	H	5	24.9	34.4	38.8	[721]
1543	*Chlamydomonas raudensis*	A	A	7	6.2	12.4	27.0	[722]
1544	*Chlamydomonas raudensis*	A	A	7	6.1	12.2	27.1	[722]
1545	*Chlamydomonas raudensis*	A	A	8	6.1	20.3	30.1	[722]
1546	*Mobilitalea sibirica*	AN	H	1	37.0	37.0	37.0	[723]
1547	*Chlamydomonas raudensis*	A	A	2	8.0	15.0	15.0	[724]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1548	*Chlamydomonas raudensis*	A	A	2	8.0	8.0	15.0	[724]
1549	*Chlamydomonas raudensis*	A	A	1	8.0	8.0	8.0	[724]
1550	*Chlamydomonas raudensis*	A	A	2	8.0	15.0	15.0	[724]
1551	*Chlamydomonas raudensis*	A	A	2	8.0	8.0	15.0	[724]
1552	*Methanogenium thermophilicum*	AN	H	7	36.9	57.7	64.1	[725]
1553	*Archaeoglobus veneficus*	AN	A	5	64.9	79.9	85.0	[726]
1554	*Galenea microaerophila*	microA	M	7	20.0	35.0	50.0	[727]
1555	*Thermonema lapsum*	A	H	7	35.0	60.0	65.0	[728]
1556	*Thermonema rossianum*	A	H	7	35.0	59.9	65.1	[728]
1557	*Thermonema rossianum*	A	H	7	35.0	60.0	65.0	[728]
1558	*Methanolobus siciliae*	AN	A	4	31.1	40.2	42.2	[729]
1559	*Methanolobus siciliae*	AN	A	5	19.9	40.1	40.1	[729]
1560	*Anaerobranca horikoshii*	AN	H	19	34.0	56.3	65.4	[730]
1561	*Rubrobacter radiotolerans*	A	H	5	37.0	49.9	59.9	[731]
1562	*Rubrobacter xylanophilus*	A	H	9	30.1	59.8	69.8	[731]
1563	*Sphaerochaeta multiformis*	AN	H	1	9.0	9.0	9.0	[732]
1564	*Caloramator indicus*	AN	H	5	55.3	65.3	75.2	[733]
1565	*Thermobrachium celere*	AN	H	17	50.0	66.8	71.8	[734]
1566	*Thermosyntropha lipolytica*	AN	H	5	52.1	67.3	70.2	[735]
1567	*Thermosyntropha lipolytica*	AN	H	6	52.1	67.7	73.1	[735]
1568	*Thermosyntropha lipolytica*	AN	H	5	52.1	67.6	70.2	[735]
1569	*Hydrogenobacter hydrogenophilus*	microA	A	8	45.1	64.9	77.6	[736]
1570	*Methanopyrus sp.*	AN	A	5	84.7	99.8	109.8	[737]
1571	*Thermoplasma acidophila*	A	H	6	45.3	59.2	62.3	[738]
1572	*Thermoplasma acidophila*	A	H	6	45.3	59.2	62.2	[738]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1573	*Thermothrix thiopara*	FA	M	5	59.1	72.5	72.5	[739]
1574	*Methanococcus thermolithotrophic*	AN	A	10	30.3	64.9	70.1	[740]
1575	*Methanococcus voltae*	AN	A	5	25.3	40.2	43.1	[740]
1576	*Desulfurolobus ambivalens*	FA	A	4	70.2	79.4	87.7	[741]
1577	*Thermococcus stetteri*	AN	H	6	60.1	74.8	84.6	[742]
1578	*Methanobacterium defluvii*	AN	A	7	36.2	60.8	69.0	[743]
1579	*Methanobacterium thermoflexum*	AN	A	6	36.5	54.6	69.5	[743]
1580	*Methanococcus igneus*	AN	A	10	40.7	88.2	90.1	[744]
1581	*Archaeoglobus profundus*	AN	M	6	75.4	81.9	90.6	[745]
1582	*Thermococcus profundus*	AN	H	5	50.1	80.3	90.2	[746]
1583	*Gelria glutamica*	AN	H	1	52.5	52.5	52.5	[747]
1584	*Clostridium thiosulfatireducens*	AN	H	4	20.1	37.0	40.0	[748]
1585	*Thermoanaerobium brockii*	AN	H	8	35.0	70.4	84.5	[749]
1586	*Desulfotomaculum geothermicum*	AN	A	6	44.7	53.9	55.2	[750]
1587	*Desulfurobacterium crinifex*	AN	A	5	50.0	60.2	70.0	[751]
1588	*Methanomethylovorans uponensis*	AN	H	1	37.0	37.0	37.0	[752]
1589	*Coprothermobacter platensis*	AN	H	1	55.0	55.0	55.0	[753]
1590	*Clostridium thermopapyrolyticum*	AN	H	1	59.0	59.0	59.0	[754]
1591	*Nautilia lithotrophica*	AN	A	1	53.0	53.0	53.0	[755]
1592	*Fusibacter paucivorans*	AN	H	4	19.0	37.0	37.0	[756]
1593	*Thermus thermophilus*	A	H	1	75.0	75.0	75.0	[757]
1594	*Blastocatella fastidiosa*	A	H	1	32.5	32.5	32.5	[758]
1595	*Bryocella elongata*	A	H	1	22.0	22.0	22.0	[759]
1596	*Alkalibacterium indicireducens*	FA	H	1	25.0	25.0	25.0	[760]
1597	*Marinilactibacillus psychrotolerans*	AN	H	4	25.0	37.0	42.5	[761]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1598	*Caldisphaera lagunensis*	AN	H	1	75.0	75.0	75.0	[762]
1599	*Alkalibacterium iburiense*	FA	H	6	15.0	30.0	40.0	[763]
1600	*Alkalibacterium iburiense*	FA	H	6	15.0	30.0	40.0	[763]
1601	*Alkalibacterium iburiense*	FA	H	6	15.0	37.0	40.0	[763]
1602	*Shewanella profunda*	AN	H	1	30.0	30.0	30.0	[764]
1603	*Alkalibacterium psychrotolerans*	AN	H	7	10.0	34.0	40.0	[765]
1604	*Desulfovibrio piezophilus*	AN	H	1	30.0	30.0	30.0	[766]
1605	*Acidiplasma aeolicum*	FA	H	1	43.5	43.5	43.5	[767]
1606	*Paludibaculum fermentans*	FA	H	1	24.0	24.0	24.0	[768]
1607	*Halobacterium noricense*	FA	H	1	37.0	37.0	37.0	[769]
1608	*Alkalibacterium olivoapovliticus*	AN	H	1	29.0	29.0	29.0	[770]
1609	*Halobacillus litoralis*	A	H	1	35.0	35.0	35.0	[771]
1610	*Halobacillus trueperi*	A	H	1	35.0	35.0	35.0	[771]
1611	*Terriglobus albidus*	A	H	1	33.0	33.0	33.0	[772]
1612	*Marinilactibacillus piezotolerans*	FA	H	1	38.5	38.5	38.5	[773]
1613	*Halobacillus mangrovi*	A	H	1	34.0	34.0	34.0	[774]
1614	*Flavobacterium antarcticum*	A	H	8	5.0	21.9	24.1	[775]
1615	*Amphibacillus cookii*	FA	H	1	37.0	37.0	37.0	[776]
1616	*Desulfovibrio dechloracetivorans*	AN	H	2	25.0	30.0	30.0	[777]
1617	*Desulfomicrobium orale*	AN	H	1	37.0	37.0	37.0	[778]
1618	*Desulfovibrio sp.*	AN	H	1	37.0	37.0	37.0	[778]
1619	*Desulfobacter curvatus*	AN	H	1	30.0	30.0	30.0	[779]
1620	*Desulfobacter hydrogenophilus*	AN	H	1	30.5	30.5	30.5	[779]
1621	*Desulfobacter latus*	AN	H	1	30.5	30.5	30.5	[779]
1622	*Halomonas sinaiensis*	FA	H	1	35.0	35.0	35.0	[780]

(Table S2 continued.)

Code	Strain/species name	Aero.	Troph.	Smp.	$T_{\min}$	T_{opt}	$T_{\max}$	Lit.
1623	*Desulfovibrio inopinatus*	AN	H	1	30.0	30.0	30.0	[781]
1624	*Anaerobacillus alkalilacustre*	AN	H	1	32.5	32.5	32.5	[782]
1625	*Desulfurella karnchatkensis*	AN	H	1	54.0	54.0	54.0	[783]
1626	*Desulfurella propionica*	AN	H	1	55.0	55.0	55.0	[783]
1627	*Desulfovibrio intestinalis*	AN	H	1	37.0	37.0	37.0	[784]

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