

Average Growth Rate (day⁻¹) of Different *Prochlorococcus* Strains as a Function of Light Intensity
 HL or LL Clade Identification is Based on rDNA ITS Sequences[§]

Light Intensity ($\mu\text{mol Q m}^{-2} \text{ s}^{-1}$)	MED4 [†] HL(I)	MIT9201 [†] HL(II)	MIT9202 [†] HL(II)	MIT9215 [†] HL(II)	MIT9302 [†] HL(II)	MIT9312 [†] HL(II)	NATL2A [†] LL(I)	SS120 [†] LL(II)	MIT9211 [†] LL(III)	MIT9303 [†] LL(IV)	MIT9313 [†] LL(IV)
1	-	-	-	-	-	-	-	0.00 ± 0.00	-	-	-
2	-	-	-	-	-	-	-	-	0.00 ± 0.00	-	-
3	-	-	-	-	-	-	-	0.22 ± 0.04	-	-	-
4	-	-	0.08 ± 0.02	0.08 ± 0.01	-	-	-	-	0.16 ± 0.03	0.07 ± 0.00	0.01 ± 0.00
5	-	0.00 ± 0.00	-	-	-	-	0.19 ± 0.03	-	-	-	-
7	-	-	-	-	0.00 ± 0.00	0.00 ± 0.00	-	-	-	-	-
8	0.00 ± 0.00	-	-	-	-	-	0.25 ± 0.01	-	-	-	-
10	-	0.12 ± 0.01	0.15 ± 0.04	0.15 ± 0.03	0.23 ± 0.01	-	-	-	0.27 ± 0.07	-	0.20 ± 0.01
11	-	-	-	-	-	-	0.27 ± 0.02	-	-	0.20 ± 0.01	-
14	-	-	-	-	-	0.23 ± 0.15	-	-	-	-	-
15	-	-	-	-	-	-	0.50 ± 0.08	0.40 ± 0.05	-	-	-
18	0.25 ± 0.01	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	0.46 ± 0.05	-	0.52 ± 0.08	-	-	-	-
21	-	-	-	-	-	-	-	-	-	0.45 ± 0.05	-
23	-	-	-	-	-	-	-	-	-	-	0.45 ± 0.00
25	-	-	-	-	-	-	0.54 ± 0.03	-	-	-	-
26	-	0.19 ± 0.00	-	0.23 ± 0.00	-	-	-	-	-	-	-
27	-	-	-	-	-	-	-	-	0.42 ± 0.01	-	-
29	-	-	0.30 ± 0.08	-	-	-	-	-	-	-	-
33	0.47 ± 0.03	-	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	0.59 ± 0.07	-	-	-
36	-	-	-	-	-	-	-	-	-	0.53 ± 0.01	-
38	-	-	-	-	-	-	-	-	0.41 ± 0.05	-	-
39	-	-	-	0.36 ± 0.01	-	-	-	-	-	-	-
40	-	-	-	-	-	-	0.58 ± 0.01	-	-	-	-
43	-	-	0.41 ± 0.02	-	-	-	-	-	-	-	-
48	-	0.26 ± 0.01	-	-	-	-	-	-	-	-	-
53	-	-	-	-	-	-	-	-	-	0.41 ± 0.02	-
55	-	-	-	-	-	-	-	-	-	-	0.55 ± 0.01
56	-	-	-	0.45 ± 0.03	-	-	-	0.52 ± 0.05	-	-	-
60	-	-	-	-	-	-	0.54 ± 0.05	-	0.59 ± 0.06	-	-
62	0.56 ± 0.04	-	-	-	-	-	-	-	-	-	-
63	-	-	-	-	-	0.73 ± 0.09	-	-	-	-	-
64	-	0.41 ± 0.02	0.48 ± 0.03	-	-	-	-	-	-	-	-
66	-	-	-	-	0.66 ± 0.08	-	-	-	-	-	-
73	-	-	-	-	-	-	-	-	-	0.28 ± 0.02	-
77	-	-	-	-	-	-	-	0.49 ± 0.04	-	-	-
80	-	-	-	-	-	-	0.52 ± 0.01	-	-	-	-
100	-	-	-	-	-	-	0.46 ± 0.05	-	-	-	-
110	-	-	-	-	-	-	-	0.44 ± 0.04	-	-	-
120	-	-	-	-	-	-	0.38 ± 0.01	-	-	-	-
121	-	0.57 ± 0.03	-	0.64 ± 0.04	-	-	-	-	-	-	-
122	-	-	-	-	-	-	-	-	0.64 ± 0.02	-	-
128	-	-	0.74 ± 0.05	-	-	-	-	-	-	-	-
129	0.60 ± 0.07	-	-	-	-	-	-	-	-	-	-
144	-	-	-	-	-	-	-	0.00 ± 0.00	-	-	-
148	-	-	-	-	-	-	-	-	-	-	0.42 ± 0.00
149	-	-	-	-	-	-	-	-	-	0.00 ± 0.00	-
155	-	-	0.71 ± 0.01	-	-	-	-	-	-	-	-
158	-	-	-	0.77 ± 0.04	0.77 ± 0.01	-	-	-	-	-	-
159	-	0.80 ± 0.03	-	-	-	-	-	-	-	-	-
164	-	-	-	-	-	0.78 ± 0.00	-	-	-	-	-
173	0.63 ± 0.01	-	-	-	-	-	-	-	-	-	-
206	-	0.69 ± 0.03	-	-	-	-	-	-	-	-	-
211	-	-	0.85 ± 0.06	-	-	-	-	-	0.46 ± 0.01	-	-
222	-	-	-	0.77 ± 0.06	-	-	-	-	-	-	-
235	-	-	-	-	-	-	-	-	-	-	0.00 ± 0.00
236	0.61 ± 0.02	-	-	-	-	-	-	-	-	-	-
254	-	0.78 ± 0.05	-	-	-	-	-	-	-	-	-
272	-	-	0.80 ± 0.02	-	-	-	-	-	-	-	-
291	-	0.78 ± 0.05	-	-	-	-	-	-	-	-	-
314	-	-	-	0.65 ± 0.00	-	-	-	-	-	-	-
366	-	-	0.65 ± 0.01	-	-	-	-	-	-	-	-
402	-	0.63 ± 0.05	-	-	-	-	-	-	-	-	-
407	-	-	-	0.54 ± 0.04	-	-	-	-	-	-	-
418	-	-	0.68 ± 0.04	-	-	-	-	-	-	-	-
457	0.52 ± 0.03	-	-	-	-	-	-	-	-	-	-
465	-	-	-	-	0.46 ± 0.03	-	-	-	-	-	-
492	-	-	-	-	-	0.48 ± 0.08	-	-	-	-	-

☐ = Highest Observed Growth Rate - = No data available

Average growth rates (day⁻¹) of various *Prochlorococcus* strains and associated clades at different light intensities All replicate cell cultures were grown at 24°C on a 14:10 light:dark cycle. All data from Moore and Chisholm, 1999, denoted with †, except data for MED4 and SS120, denoted with ‡, from Moore et al. 1995, and data for NATL2A, denoted with ‡, from Zinser et al. 2007. *Prochlorococcus* clades are defined by the evolutionary relationships determined from the 16S-23S rDNA spacer, also called the internal transcribed spacer (ITS) sequence[§].

References

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