

Supplementary Table S5. Impact of Light Spectra and Nitrogen Source on Phycocyanin Concentration in *Limnospira maxima* Cultivation. This figure showcases the influence of different light spectra and nitrogen sources on the concentration of phycocyanin in *Limnospira maxima* cultures. The cultures were supplemented with NaNO₃, KNO₃, or maintained as controls (WN) under white, red, blue, and yellow light spectra. The presented values denote the means along with their respective standard deviations (\pm SD). Capital letters indicate significant effects among nitrogen sources within the same light spectra, while lowercase letters denote significant differences among light spectra within the same nitrogen source. The statistical significance was determined through the SNK test.

Light spectra	N source	0	3	6	9	12	15	18	21	24	27
White	NaNO ₃	81.00 Ab	134.37 Ab	166.48 Aa	185.97 Ba	237.57 Aa	259.15 Aa	302.30 Aa	301.68 Ba	368.18 Aa	375.69 Aa
	KNO ₃	66.59 Bb	122.04 Bb	164.77 Aa	190.98 Aa	229.80 Aa	251.80 Aa	291.80 Ba	333.46 Aa	341.67 Ba	384.11 Aa
	WN	54.06 Bb	113.28 Cb	151.58 Ab	177.47 Cb	206.70 Ba	213.48 Bb	254.26 Ca	238.22 Ca	223.12 Cc	207.36 Bc
Red	NaNO ₃	93.79 Ab	118.08 Ac	152.58 Aa	173.14 Abc	206.64 Abc	202.71 Ab	250.65 Ab	293.27 Aa	296.85 Ab	315.68 Ab
	KNO ₃	59.17 Bb	86.48 Cc	112.39 Cc	135.49 Cc	149.24 Cc	172.52 Bc	188.71 Cc	211.73 Bd	225.91 Bc	253.39 Bc
	WN	61.49 Bb	101.58 Bc	137.56 Bc	159.93 Bc	174.62 Bc	188.24 Bc	207.91 Bc	211.47 Bb	237.19 Bb	230.71 Cb
Blue	NaNO ₃	131.23 Aa	143.15 Aa	155.23 Ba	166.33 Bc	192.12 Bc	170.24 Cc	208.60 Bc	219.54 Bc	255.77 Bc	259.69 Ac
	KNO ₃	102.99 Ba	131.22 Ca	146.48 Bb	164.79 Bb	191.49 Bb	199.58 Bb	209.19 Bb	237.11 Ac	226.89 Cc	252.61 Ac
	WN	116.17 Ba	143.29 Ba	171.54 Aa	198.85 Aa	215.50 Aa	220.36 Aa	247.49 Aa	208.95 Cb	265.07 Aa	258.15 Aa
Yellow	NaNO ₃	71.56 Ac	102.57 Bc	148.42 Aa	163.43 Ac	191.57 Ac	202.72 Ab	247.49 Ab	242.72 Bb	301.69 Ab	328.66 Ab
	KNO ₃	55.57 Bc	91.89 Cc	132.31 Bb	156.15 Ab	197.46 Ab	210.83 Ab	228.47 Bb	277.19 Ab	307.47 Ab	312.46 Ab
	WN	52.02 Bc	100.22 Bc	128.98 Cc	151.64 Ac	176.25 Bc	194.49 Ab	226.74 Bb	216.73 Cb	211.13 Bc	203.66 Bc