

Additional file 2: Additional table

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Development of a method for phycocyanin recovery from filamentous cyanobacteria and evaluation of its stability and antioxidant capacity

Jinichi Aoki^{1,2}, Daisaku Sasaki³, Munehiko Asayama^{1,2*}

*Correspondence: munehiko.asayama.777@vc.ibaraki.ac.jp

¹College of Agriculture, Ibaraki University, 3-21-1 Ami, Ibaraki 300-0393, Japan

²United Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, 3-5-8 Saiwai-cho Fuchu-shi, Tokyo 183-8509, Japan

³BioX Chemical Industries Co. Ltd., 2-20-11 Inokuchidai, Nishi-ku, Hiroshima 733-0844, Japan

Table S1 Extraction, yield, and purity of phycocyanin from cyanobacteria

Cyanobacteria	Medium	Extraction		Cells (W/D)	PC ($\mu\text{g mL}^{-1}$)	Yield (%)	Purity (A620/A280)	References
		Method	Solvent					
<i>Pseudanabaena</i> sp. ABRG5-3	BG11	Water addition	Water	Wet	119	30.4	3.10	This study
<i>Limnothrix</i> sp. SK1-2-1	BG11	Water addition	Water	Wet	133	28.9	2.14	This study
<i>Spirulina platensis</i> (NIES-39)	BG11	Water addition	Water	Wet	39	7.8	1.76	This study
<i>Spirulina platensis</i> (NIES-39)	SOT	Water addition	Water	Wet	164	21.1	1.76	This study
<i>Spirulina platensis</i> (CCC540)	Z-medium	Freezing and thawing	Acetate buffer, sodium chloride, sodium azide	Wet	77	-	0.75	Kumar et al., 2014
<i>Spirulina platensis</i> (CCC540)	Z-medium	Ammonium sulphate precipitation	Acetate buffer, sodium chloride, sodium azide	Wet	124	-	1.50	Kumar et al., 2014
<i>Spirulina platensis</i> (CCC540)	Z-medium	Dialysis	Acetate buffer, sodium chloride, sodium azide	Wet	601	-	2.93	Kumar et al., 2014
<i>Spirulina platensis</i> (CCC540)	Z-medium	DEAE column chromatography	Acetate buffer, sodium chloride, sodium azide	Wet	413	-	4.58	Kumar et al., 2014
<i>Spirulina platensis</i>	-	Conventional separation	Phosphate buffer	Dry	-	7.2	0.88	Seo et al., 2013
<i>Spirulina platensis</i>	-	Hexane extraction with high pressure	Phosphate buffer, hexane	Dry	-	10.2	0.91	Seo et al., 2013
<i>Spirulina platensis</i>	-	Hexane extraction	Phosphate buffer, hexane	Dry	-	8.4	0.88	Seo et al., 2013
<i>Cylindrospermopsis raciborskii</i>	Modified-BG11	Freezing and thawing	Phosphate buffer	Wet	2	-	-	Horváth et al., 2013
<i>Cylindrospermopsis raciborskii</i>	Modified-BG11	Grinding	Phosphate buffer	Wet	3	-	-	Horváth et al., 2013
<i>Cylindrospermopsis raciborskii</i>	Modified-BG11	Sonication	Phosphate buffer	Wet	3	-	-	Horváth et al., 2013
<i>Cylindrospermopsis raciborskii</i>	Modified-BG11	Homogenization with polytron	Phosphate buffer	Wet	1	-	-	Horváth et al., 2013