## 乾海苔が含有する光合成色素の新定量法開発

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Development of a new quantitative method for photosynthetic pigments

contained in the Nori sheet

## 補足資料

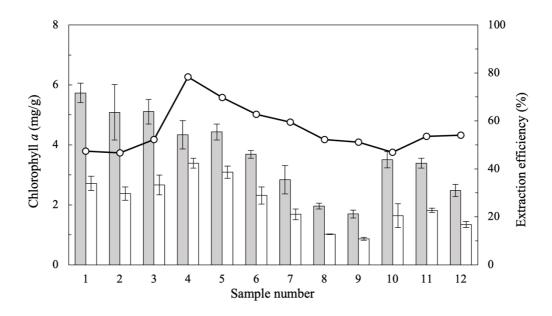


Fig. S1. Quantitative results of chlorophyll a extracted from 10 circles of Nori sheet by conventional method and OP1 respectively. Closed bars show the values of the conventional method, open bars show the values of OP1, and the open circles show the extraction efficiency. All experiments were conducted in triplicate. Data are shown as mean  $\pm$  standard deviation (n=3).

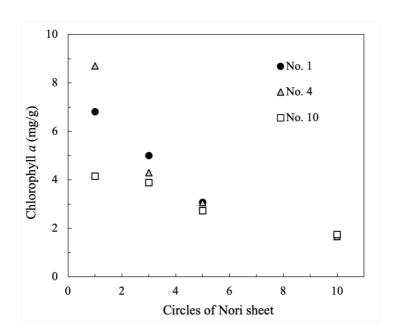


Fig. S2. Quantitative results of chlorophyll a using fluorescence measurements for a series of Nori sheet circles. All experiments were conducted in duplicate (n=2).

Table S1. Two-variable analysis of variance (Two-way ANOVA) examining the effect of operation and samples on chlorophyll *a* content.

Factor	d.f.	SS	MS	F-value	p -value
operation	1	0.01	0.01	0.019	0.892
sample	1	65.93	65.93	230.836	< 0.001
operation: sample	1	0.00	0.00	< 0.001	0.985

Table S2. Two-variable analysis of variance (Two-way ANOVA) examining the effect of extraction methods and samples on chlorophyll *a* , carotenoids, phycoerythrin and phycocyanin contents.

Variable	Factor	d.f.	SS	MS	F-value	p -value
Chlorophyll a	method	1	0.14	0.139	0.735	0.397
	sample	11	150.10	13.646	71.908	< 0.001
	method: sample	11	6.36	0.578	3.045	0.004
Carotenoids	method	1	< 0.001	< 0.001	0.008	0.928
	sample	11	8.658	0.787	48.733	< 0.001
	method: sample	11	0.436	0.040	2.454	0.016
Phycoerythrin	method	1	62	62	21.902	< 0.001
	sample	11	5976	543	191.823	< 0.001
	method: sample	11	83	8	2.668	< 0.001
Phycocyanin	method	1	9.6	9.58	3.102	0.085
	sample	11	2570.8	233.71	75.672	< 0.001
	method: sample	11	48.6	4.41	1.429	0.191