

# Supplementary Materials:

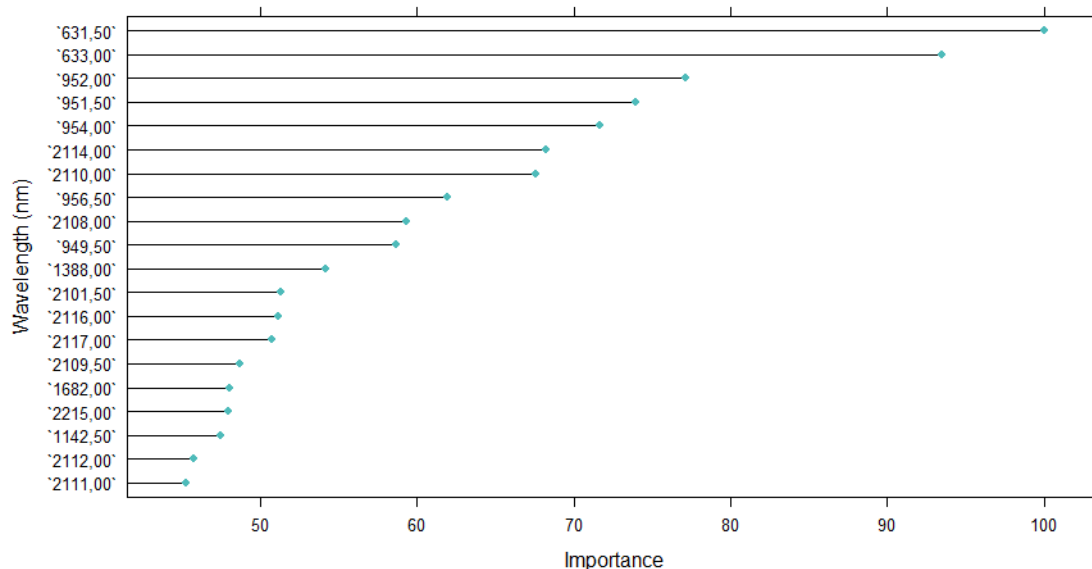
**Table S1.** The lists of macroalgae samples used in this study.

No	Code	Species	Cultivation Site	Origin	Regional Zone
1	GR_1	<i>Gracilaria changii</i>	Takalar tank	Celebes	East
2	GR_2		Takalar tank	Celebes	East
3	GR2_1		Jepara	Java	West
4	GR2_2		Jepara	Java	West
5	GR3_1		Kutuh	Bali	Center
6	GR3_2		Kutuh	Bali	Center
7	GR4_1		Takalar wild	Celebes	East
8	GR4_2		Takalar wild	Celebes	East
9	GR5_1		Takalar sea	Celebes	East
10	GR5_2		Takalar sea	Celebes	East
11	GR6_1		Takalar pond	Celebes	East
12	GR6_2		Takalar pond	Celebes	East
13	GR7_1		Maros	Celebes	East
14	GR7_2		Maros	Celebes	East
15	GR8_1		Maros hijau	Celebes	East
16	GR8_2		Maros hijau	Celebes	East
17	KA_1		Bentaeng	Celebes	East
18	KA_2		Bentaeng	Celebes	East
19	KAP_1	<i>Kappaphycus alvarezii</i>	Serui	Papua	East
20	KAP_2		Serui	Papua	East
21	KA2_1		Penida	Bali	Center
22	KA2_2		Penida	Bali	Center
23	KA3_1		Kepulauan Geranting	Sumatera	West
24	KA3_2		Kepulauan Geranting	Sumatera	West
25	KA4_1		Lembongan	Bali	Center
26	KA4_2		Lembongan	Bali	Center
27	KA5_1		Takalar sea	Celebes	East
28	KA5_2		Takalar sea	Celebes	East
29	KA6_1		Banyuwangi	Java	West
30	KA6_2		Banyuwangi	Java	West
31	KA7_1		Puntondo	Celebes	East
32	KA7_2		Puntondo	Celebes	East
33	KA8_1		Pacitan Hijau	Java	West
34	KA8_2		Pacitan Hijau	Java	West
35	KA9_1		Pacitan	Java	West
36	KA9_2		Pacitan	Java	West
37	KA10_1		Kutuh	Bali	Center
38	KA10_2		Kutuh	Bali	Center
39	KA11_1		Kepulauan Geranting	Sumatera	West
40	KA11_2		Kepulauan Geranting	Sumatera	West
41	KA12_1		Kepulauan Geranting	Sumatera	West
42	KA12_2		Kepulauan Geranting	Sumatera	West
43	KA13_1		Kepulauan Geranting	Sumatera	West
44	KA13_2		Kepulauan Geranting	Sumatera	West
45	KA14_1		Lombok	Lombok	Center
46	KA14_2		Lombok	Lombok	Center

47	KA15_1	Jeneponto	Celebes	East
48	KA15_2	Jeneponto	Celebes	East
49	SP_1	Puntondo	Celebes	East
50	SP_2	Puntondo	Celebes	East
51	SP2_1	Jeneponto	Celebes	West
52	SP2_2	Jeneponto	Celebes	West
53	SP3_1	Nusa Ceningan	Bali	Center
54	SP3_2	Nusa Ceningan	Bali	Center
55	SP4_1	Lembongan	Bali	Center
56	SP4_2	Lembongan	Bali	Center
57	SP5_1	Pacitan	Java	West
58	SP5_2	Pacitan	Java	West
59	SP6_1	Tanakeke	Celebes	East
60	SP6_2	Tanakeke	Celebes	East
61	SP7_1	Jungutbatu	Bali	Center
62	SP7_2	Jungutbatu	Bali	Center
63	SP8_1	Kepulauan Geranting	Sumatera	West
64	SP8_2	Kepulauan Geranting	Sumatera	West
65	SP9_1	Banyuwangi	Java	West
66	SP9_2	Banyuwangi	Java	West
67	SP10_1	Lombok	Lombok	Center
68	SP10_2	Lombok	Lombok	Center
69	SP11_1	Bentaeng	Celebes	East
70	SP11_2	Bentaeng	Celebes	East

*Euchema spinosum*

Labeled GR belongs to species *Gracilaria changii*; KA belongs to *Kappaphycus alvarezii*; SP belongs to *Euchema spinosum*.



**Figure S1.** List of the 20 greatest important attributes in RF model and their relative important based on Vis-NIR data set ( $D_{70 \times 4187}$ ).