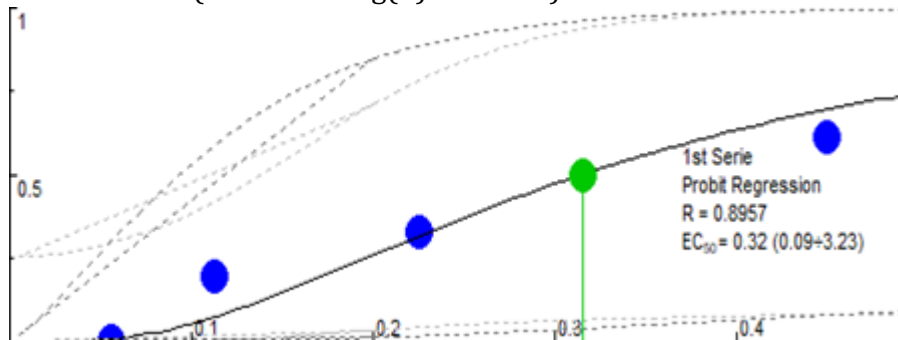


## SUPPORTING INFO

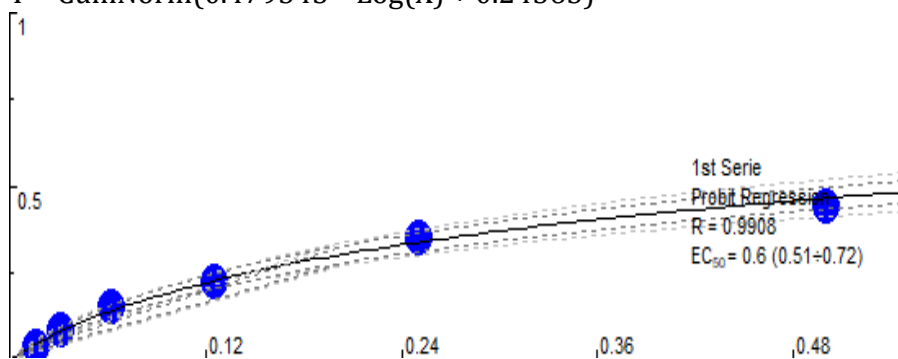
### Antioxidant Activity of MAE extracts

$$Y = \text{CumNorm}(1.42625 * \text{Log}(X) + 1.6467)$$



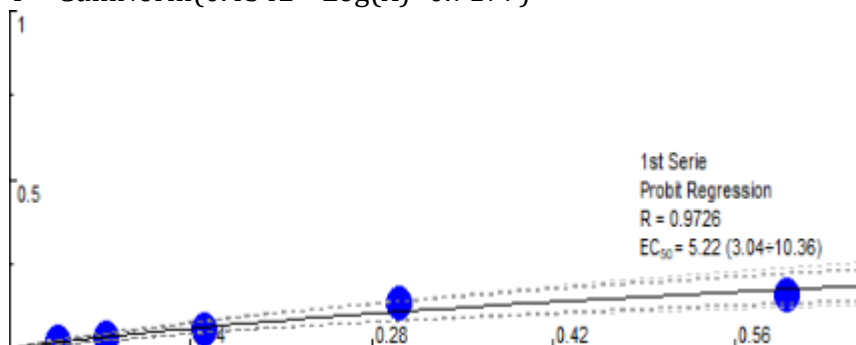
**Figure S1.** DPPH essay for MAE extract of *Sargassum muticum*. Probit regression, relative equation and EC50 value. Measurements were performed according to Paragraph 2.5 in the Experimental Section.

$$Y = \text{CumNorm}(0.479343 * \text{Log}(X) + 0.24363)$$




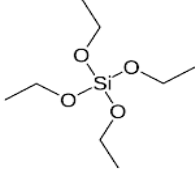
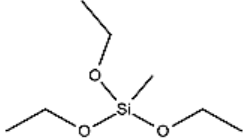
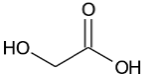
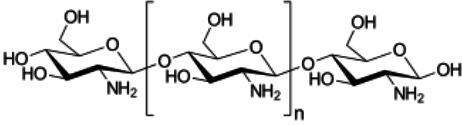
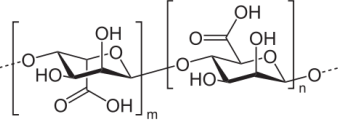
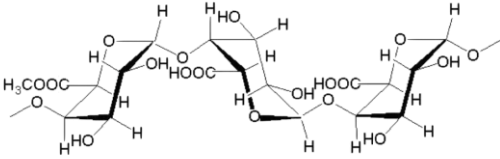
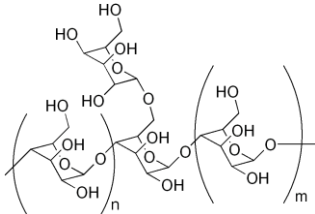
**Figure S2.** DPPH essay for MAE extract of *Ulva lactuca*. Probit regression, relative equation and EC50 value. Measurements were performed according to Paragraph 2.5 in the Experimental Section.

$$Y = \text{CumNorm}(0.4342 * \text{Log}(X) - 0.7177)$$



**Figure S3.** DPPH essay for MAE extract of *Solieria filiformis*. Probit regression, relative equation and EC50 value. Measurements were performed according to Paragraph 2.5 in the Experimental Section.

**Table S1.** Base and formulates materials.

Material	Formula	INCI
MilliQ water		AQUA
Tetrahydroxysilane (TEOS) <i>reagent grade, 98%</i>		SILICA
Methyltriethoxysilane (MTES) <i>technical grade, 90%</i>		SILICA
Glycolic acid, 99%		GLYCOLIC ACID
Chitosan		CHITOSAN
Sodium Alginate		NATRII ALGINAS
Pectin (E 440)		PECTIN
Guar gum, Jaguar HP-105		CYAMOPSIS TETRAGONOLOBUS GUM
Algal Extract	-	(...) EXTRACT
Extravirgin Olive Oil Bio (EVOO)	-	OLEA EUROPAEA FRUIT OIL
Sodium Chloride	NaCl	SODIUM CHLORIDE

**Fattyilan V (Vegetal)**

-

CETEARYL ALCOHOL,  
CETEARETH-3,  
HYDROGENATED  
VEGETABLE OIL,  
SODIUM LAURYL  
SULFATE

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**Table S2.** Thermogravimetric analysis of MAE extract.

Samples	<i>Water</i> (%)	<i>Organic</i> (%)	<i>Ashes</i> (%)	Dehydrated	
				<i>Organic</i> (%)	<i>Ashes</i> (%)
<i>Sargassum muticum</i>	5,65	72,08	22,27	76,40	23,60
<i>Ulva lactuca</i>	7,34	49,59	43,07	53,52	46,48
<i>Solieria filiformis</i>	30,95	65,11	3,94	94,29	5,71