

Table 1 Ethanol productions in fermentations using natural and concentrated semi-synthetic seaweed hydrolysate media (Adopted from Turner et al., 2022)

	Glucose (g/L)	Glucose+galactose (g/L)	Total (g/L)	sugar Ethanol (g/L)	Yield based on glucose (%)	Yield based on glucose + galactose %	Yield based on total sugar (%)
<i>L. digitata</i>							
YPD	20	20	20	9.8±2.03	95.7	95.7%	95.7
Natural	1.32	1.87	20.14	1.13±0.04	167.2	118.0%	11.0
5x	6.6	9.35	100.7	5.41±0.97	160.1	113.0%	10.5
7.5x	9.9	14.03	151.1	7.87±2.19	155.3	109.6%	10.2
10x	13.2	18.7	201.4	5.79±1.37	85.7	60.5%	5.6
<i>U. linza</i>							
YPD	20	20	20	10.03±0.52	97.9	97.9%	97.9
Natural	8.16	8.83	16.61	4.26±0.48	102.0	94.2%	50.1
5x	40.8	44.15	83.05	20.43±2.80	97.8	90.4%	48.0
7.5x	61.2	66.23	124.6	34.7±4.40	110.7	102.3%	54.4
10x	81.6	88.3	166.1	45.04±4.40	107.8	99.6%	53.0
<i>P. umbilicalis</i>							
YPD	20	20	20	10.31±1.36	100.7	100.7%	100.7
Natural	3.52	9.81	13.08	3.39±0.28	188.1	67.5%	50.6
5x	17.6	49.05	65.4	7.49±2.26	83.1	29.8%	22.4
7.5x	26.4	73.58	98.1	13.61±0.37	100.7	36.1%	27.1
10x	35.2	98.1	130.8	19.85±2.64	110.1	39.5%	29.6