

Supplementary Data

Simultaneous quantification of marine neutral neoagaro-oligosaccharides and agar-oligosaccharides by UHPLC-MS/MS method: Application to the intestinal transport study by Caco-2 cells monolayer

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Table S1 Apparent permeability coefficient of NAOS (DP 2, 4, 6) and AOS (DP 3, 5, 7) under different regulators

Fig. S1 Cytotoxicity assay of NA2 (a), NA4 (b), NA6 (c), A3 (d), A5 (e) and A7 (f) at the range of 50-5000 $\mu\text{mol L}^{-1}$.

Fig. S2 Calibration curve of NAOS (DP 2, 4, 6) and AOS (DP 3, 5, 7) at the range of 40-20000 nmol L⁻¹.

Table S1 Apparent permeability coefficient of NAOS (DP 2, 4, 6) and AOS (DP 3, 5, 7) under different regulators

Compound	Regulator	$P_{app, ab}$ ($10^{-6} \text{ cm s}^{-1}$)	$P_{app, ba}$ ($10^{-6} \text{ cm s}^{-1}$)	ER
NA2	-	13.83 ± 2.07	6.98 ± 0.61	0.50
	+ Phloretin	12.76 ± 1.41	6.52 ± 1.02	0.51
	+ Phlorizin	13.98 ± 1.94	7.02 ± 1.65	0.50
	+ Quercetin	13.77 ± 2.39	6.55 ± 2.24	0.48
	+ Sodium deoxycholate	23.36 ± 4.06	17.09 ± 2.31	0.73
NA4	-	6.45 ± 0.47	4.20 ± 0.23	0.65
	+ Phloretin	6.07 ± 0.81	3.52 ± 1.02	0.58
	+ Phlorizin	6.38 ± 1.13	4.12 ± 1.21	0.64
	+ Quercetin	6.35 ± 0.39	3.87 ± 1.05	0.61
	+ Sodium deoxycholate	10.31 ± 1.62	9.88 ± 2.04	0.95
NA6	-	4.71 ± 0.83	4.14 ± 0.36	0.88
	+ Phloretin	4.61 ± 1.30	4.53 ± 1.11	0.98
	+ Phlorizin	4.82 ± 0.95	4.31 ± 1.56	0.89
	+ Quercetin	4.43 ± 1.21	3.92 ± 0.83	0.88
	+ Sodium deoxycholate	9.96 ± 1.40	10.30 ± 1.89	1.03
A3	-	7.15 ± 1.48	4.41 ± 0.32	0.62
	+ Phloretin	7.05 ± 0.73	4.97 ± 0.86	0.74
	+ Phlorizin	6.68 ± 0.64	4.85 ± 0.77	0.70
	+ Quercetin	7.16 ± 0.81	4.11 ± 0.27	0.57
	+ Sodium deoxycholate	13.72 ± 2.19	10.81 ± 0.31	0.79
A5	-	4.34 ± 0.24	3.05 ± 0.07	0.70
	+ Phloretin	4.25 ± 0.73	3.31 ± 0.27	0.78
	+ Phlorizin	4.08 ± 0.49	3.11 ± 0.77	0.76
	+ Quercetin	4.60 ± 0.70	2.79 ± 0.27	0.61
	+ Sodium deoxycholate	10.06 ± 1.76	8.49 ± 2.09	0.84
A7	-	3.27 ± 0.44	3.58 ± 0.33	1.09
	+ Phloretin	3.54 ± 0.63	3.50 ± 0.46	0.99
	+ Phlorizin	3.14 ± 0.60	3.47 ± 0.62	1.10
	+ Quercetin	3.48 ± 0.71	3.23 ± 0.27	0.93
	+ Sodium deoxycholate	6.21 ± 0.87	6.79 ± 0.91	1.09

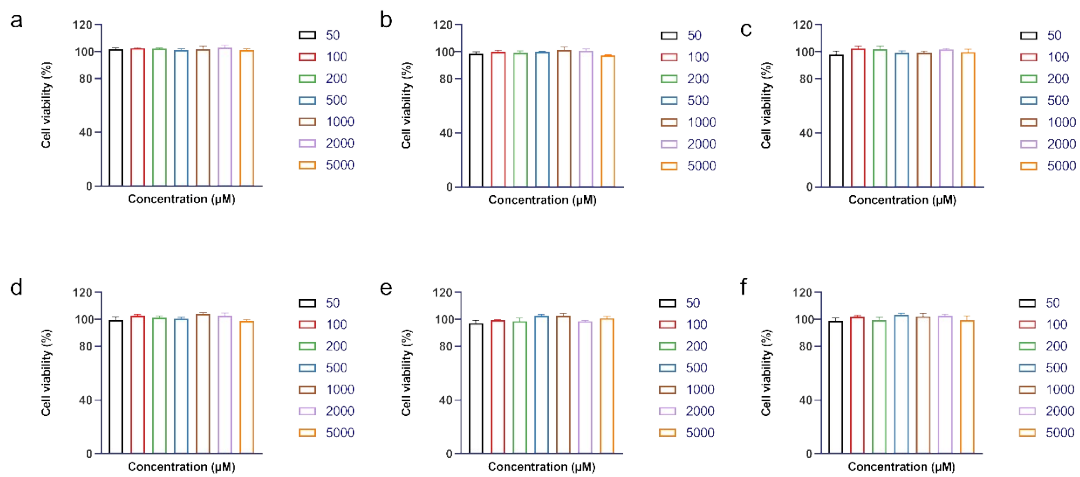


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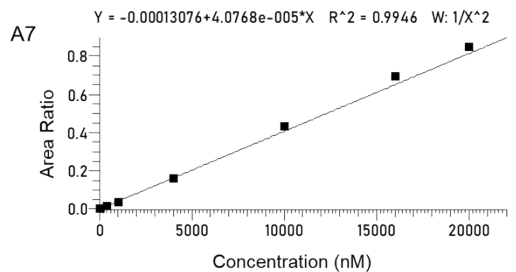
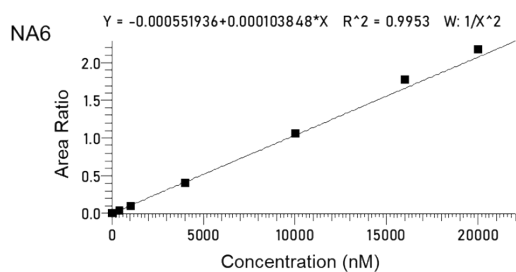
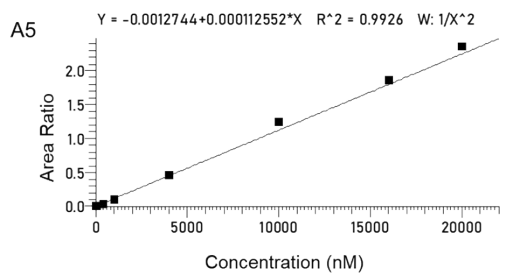
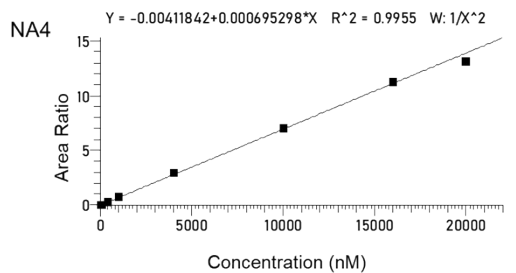
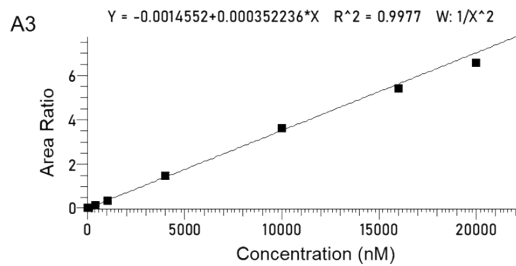
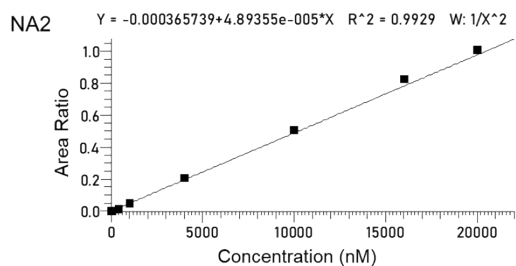


Fig. S2 Calibration curve of NAOS (DP 2, 4, 6) and AOS (DP 3, 5, 7) at the range of 40-20000 nmol L⁻¹.