

TD+15% MU TD TD TD+7% MU TD+7% MO TD TD+7% MU TD+7% MO TD TD+15% MU 11.0±3.1* PI 19.2±1.1 8.7±1.0 7.7±2.5 8.4±0.9 14.9±2.7 12.9±2.8 82.2±23.7 99.3±39.0 35.6±6.1 32.0±14.4 27.5±6.6 274.1±92.0 237.6±11.8 281.4±66.5 GST 23.3±8.0^b 13.0±3.5ª CAT 0.5±0.1 12.7±3.2 0.5±0.1 14.7±4.1 1.0±0.4 0.9±0.1 0.8±0.3 12.5±5.4ª GR 0.9+0.1 0.7±0.2 1.5±0.4 2.8+0.9* 0.6±0.1 0.9+0.3 0.9±0.4 2.7±0.7 3.0±1.0 2.7+0.7 PI, peroxides index; GST, glutathione-S-transferase; CAT, catalase; GR, Glutathione reductase. * Differences between treatments in E1 (P<0.05); different superscript letters denote significant differences in E2 (P<0.05). - Not determined

Conclusion

The use of a 7% of multispecific seaweed as a feed additive seems to have beneficial effects in terms of growth, visceral fat deposition and oxidative status in *C. idella*.

References: Bourgougnon, N. 2014. Elsevier Ed. Vol. 71. 561pp. FAO. 2020. Roma, 244 pp. Moutinho et al., 2018. J. Appl. Phycol., 30(6), 3589-3601. Mossbauer, M., 2012. Ocean Coast Manag., 57, 1-9.

- fat and liver deposition regardless of the percentage of inclusion, without affecting fish muscle TL and FA profiles, also suggesting a lipolitic action of the seaweed (Bourgougnon, 2014).
- Fish fed with a 15% of algae inclusion showed a better oxidative status of muscle, and an improved GR activity in liver. A 7% supplementation of both MU and MO macroalgal wrack caused a better CAT defense in liver.

Acknowledgements

MACBIOBLUE (MAC/1.1b/086). CajaSiete (scholarship A.G.), Gobierno de Canarias (scholarship M.M.), C.R. is a member of ITB (Canary Islands).