

Reemplazo parcial de aceite de pescado en la dieta de salmón Atlántico a partir de lípidos de origen vegetal

P. Gallardo^{1,2*}, R. Mancilla³ y J. Wacyk⁴

¹Departamento de Ciencias Agropecuarias y Acuicolas, Facultad de Ciencias, Universidad de Magallanes, Punta Arenas, Chile

²Centro de Cultivos Marinos Bahía Laredo, Facultad de Ciencias, Universidad de Magallanes, Punta Arenas, Chile

³American Bioprocess Ltda., Valparaíso, Chile

⁴Departamento de Producción Animal, Facultad de Ciencias Agronómicas, Universidad de Chile, Santiago, Chile

*pablo.gallardo@umag.cl

- Bell J.G., McEvoy J., Tocher D., McGhee F., Campbell P.J. & J.R. Sargent. 2001. Replacement of Fish Oil with Rapeseed Oil in Diets of Atlantic Salmon (*Salmo salar*) Affects Tissue Lipid Compositions and Hepatocyte Fatty Acid Metabolism. *American Society for Nutritional Sciences. J. Nutr.* vol. 131 (5) 1535-1543.
- Bell, J.G., Mackinlay, E., Dick, J., Younger, I., Lands, B., & Gilhooly, T. (2011). Using a fingertip whole blood sample for rapid fatty acid measurement: Method validation and correlation with erythrocyte polar lipid compositions in UK subjects. *British Journal of Nutrition*, 106(9), 1408-1415.
- Folch J., M. Lees & G. Sloane-Stanley. 1957. A simple method for the isolation and purification of total lipids from animal tissues. *J. Biol. Chem.* 226, 497–509.
- Gu, M., Kortner, T., Penn, M., Hansen, A., & Krogdahl, Å. (2014). Effects of dietary plant meal and soya-saponin supplementation on intestinal and hepatic lipid droplet accumulation and lipoprotein and sterol metabolism in Atlantic salmon (*Salmo salar* L.). *British Journal of Nutrition*, 111(3), 432-444.
- Obour KA, Sintim YH, Obeng E, Jeliakov DV (2015) Oilseed Camelina (*Camelina sativa* L Crantz): Production Systems, Prospects and Challenges in the USA Great Plains. *Adv Plants Agric Res* 2(2): 00042.
- Official Methods of Analysis. 15th Edition. 1990. Association of Official Analytical Chemists. Suite 400. 2200 Wilson Boulevard. Arlington, Virginia 22201 USA. 700 pp.
- Sahlmann ., Sutherland B., Kortner T., Koop B., Krogdahl A. and A. Bakke. Early response of gene expression in the distal intestine of Atlantic salmon (*Salmo salar* L.) during the development of soybean meal induced enteritis, *Fish & Shellfish Immunology*, Volume 34, Issue 2, 2013 Pages 599-609, ISSN 1050-4648.
- Xue X., Hixson ., Hori T., Booman M., Parrish C., Anderson D., Rise M. Atlantic salmon (*Salmo salar*) liver transcriptome response to diets containing Camelina sativa products, *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, Volume 14, 2015 Pages 1-15, ISSN 1744-117X.