

Title (en)

ALLEVIATION OF ANAEMIC GROWTH SUPPRESSION IN FISH

Title (de)

LINDERUNG VON ANÄMISCHER WACHSTUMSUNTERDRÜCKUNG BEI FISCHEN

Title (fr)

ATTÉNUATION DE LA SUPPRESSION DE LA CROISSANCE ANÉMIQUE DES POISSONS

Publication

EP 2890248 A1 20150708 (EN)

Application

EP 13736528 A 20130704

Priority

- GB 201215552 A 20120831
- EP 2013064197 W 20130704

Abstract (en)

[origin: WO2014032837A1] Dover sole (*Solea solea*) which are farmed in an aquaculture system such as sea ranching show a slower growth rate and the system has a lower productivity than expected from sole living in a more natural marine environment. The addition of a source of heme and optionally a source of vitamin B12 to the diet of the fish results in an increase in daily growth rate and therefore an increase in productivity of a fish farming or ranching system. The addition of heme and vitamin B12 to the diet has the effect of reducing an anaemic growth suppressing effect of normal commercial fish food diets on sole. Medicaments for fish for preventing or treating anaemia and to increase haematocrit and haemoglobin include heme and optionally also vitamin B12.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2014032837A1

Citation (examination)

- MARK J. KOURY ET AL: "NEW INSIGHTS INTO ERYTHROPOIESIS: The Roles of Folate, Vitamin B 12 , and Iron* 1", ANNUAL REVIEW OF NUTRITION., vol. 24, no. 1, 14 July 2004 (2004-07-14), US, pages 105 - 131, XP055277753, ISSN: 0199-9885, DOI: 10.1146/annurev.nutr.24.012003.132306
- JEROEN KALS ET AL: "Mussel (*Mytilus edulis* L.) and ragworm (*Nereis virens* , Sars) both alleviate anaemia in common sole (*Solea solea* L.)", AQUACULTURE RESEARCH, 8 August 2015 (2015-08-08), GB, pages n/a - n/a, XP055278024, ISSN: 1355-557X, DOI: 10.1111/are.12871
- S KROECKEL ET AL: "Comparing feed intake, utilization of protein and energy for growth and body composition in *S. solea* fed natural and commercial diets", 1 January 2009 (2009-01-01), pages 1 - 23, XP055082531, Retrieved from the Internet <URL:http://edepot.wur.nl/143313> [retrieved on 20131004]
- CADENA ROA M ET AL: "USE OF REHYDRATABLE EXTRUDED PELLETS AND ATTRACTIVE SUBSTANCES FOR THE WEANING OF SOLE (*SOLEA VULGARIS*)", JOURNAL OF THE MARICULTURE SOCIETY, LOUISIANA STATE UNIVERSITY, BATON ROUGE, LA, US, vol. 13, 1 January 1982 (1982-01-01), pages 246 - 253, XP008029006, ISSN: 0735-0147
- R MÉTAILLER ET AL: "ATTRACTIVE CHEMICAL SUBSTANCES FOR THE WEANING OF DOVER SOLE (*Solea vulgaris*): QUALITATIVE AND QUANTITATIVE APPROACH", JOURNAL OF WORLD MARICULTURE SOCIETY, 1 March 1983 (1983-03-01), pages 679 - 684, XP055352416, Retrieved from the Internet <URL:http://onlinelibrary.wiley.com/doi/10.1111/j.1749-7345.1983.tb00121.x/abstract> [retrieved on 20170307]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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