INCIDENCE OF FAECAL INDICATOR ORGANISMS PRESENT IN SHRIMP *Fenneropenaeus indicus* (WHITE SHRIMP), CULTURED IN BRACKISH WATER FARM AT NARAKKAL, VYPIN.KERALA

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Dissertation submitted to the Mahatma Gandhi University, Kottayam in partial fulfillment of the requirement for the award of degree of

MASTER OF SCIENCE

IN

AQUACULTURE AND FISH PROCESSING



Submitted by

CICILY MABLE P.J.

Reg. No. 120011023714

34

DEPARTMENT OF AQUACULTURE

SACRED HEART COLLEGE

THEVARA, KOCHI- 682 013

[MAHATMA GANDHI UNIVERSITY, KOTTAYAM]

2012-2014

SACRED HEART COLLEGE, THEVARA DEPARTMENT OF AQUACULTURE



This is to certify that the project work entitled "INCIDENCE OF

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Mrs. Asha Babu R.

Lecturer

Dept. Of Aquaculture

Sacred Heart College

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Thevara

20/1/2014



I hereby declare that the dissertation entitled INCIDENCE OF
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4	documents.mx Internet Source	% 1
5	documents.vsect.chalmers.se Internet Source	% 1
6	Surendraraj Alagarsamy. "Virulence genes, serobiotypes and antibiotic resistance profile of <i>Escherichia coli</i> strains isolated from aquaculture and other sources", Aquaculture Research, 10/2009 Publication	% 1
7	K. V. Lalitha. "Microbiological Quality of Farme Tropical Freshwater Prawn (Macrobrachium rosenbergii de Man)", Journal of Aquatic Food	0/

Product Technology, 04/27/2006

Publication

8	www.saso.gov.sa Internet Source	%1
9	www.archive.org Internet Source	%1
10	www.studymode.com Internet Source	% 1
11	Michael Kent. "Measuring Electrical Properties", Fishery Products, 05/08/2009	%1
12	www.i-scholar.in Internet Source	% 1
13	spot.colorado.edu Internet Source	<%1
14	onlinelibrary.wiley.com Internet Source	<%1
15	languageinindia.com Internet Source	<%1
16	www.antiessays.com Internet Source	<%1
17	books.pakchem.net Internet Source	<%1
18	Tanu. "A study on bacteria associated with the	

	intestinal tract of farmed yellow seahorse, Hippocampus kuda (Bleeker, 1852): characterization and extracellular enzymes: Intestinal bacteria in Hippocampus kuda", Aquaculture Research, 02/2012	<%1
19	Submitted to University of Venda Student Paper	<%1
20	I. Effendi. "Survival of the fish pathogen Aeromonas salmonicida in seawater", FEMS Microbiology Letters, 11/1991 Publication	<%1
21	Mohamed Hatha, A.A "Prevalence of Salmonellain fish and crustaceans from markets in Coimbatore, South India", Food Microbiology, 199704 Publication	<%1
22	Huss, H.H "Prevention and control of hazards in seafood", Food Control, 200004	<%1
23	epubs.icar.org.in Internet Source	<%1
24	Submitted to University of Birmingham Student Paper	<%1
25	www.ysfri.ac.cn Internet Source	<%1

26	Submitted to University of Northumbria at Newcastle Student Paper	<%1
27	www.cift.res.in Internet Source	<%1
28	nepis.epa.gov Internet Source	<%1
29	wiki.answers.com Internet Source	<%1
30	Gaurav, Abhishek, S Singh, JPS Gill, Rajeev Kumar, and Deepak Kumar. "Isolation and identification of Shigella spp from human fecal samples collected from Pantnagar, India", Veterinary World, 2013. Publication	<%1
31	eprints.nmlindia.org Internet Source	<%1
32	www.911emg.com Internet Source	<%1
33	Benagli, Cinzia, Antonella Demarta, AnnaPaola Caminada, Dominik Ziegler, Orlando Petrini, and Mauro Tonolla. "A Rapid MALDI-TOF MS Identification Database at Genospecies Level for Clinical and Environmental Aeromonas Strains", PLoS ONE, 2012. Publication	<%1

34	TURMERIC (CURCUMA LONGA LINN. SYN. C. DOMESTICA VAL.) FOR QUALITY IMPROVEMENT", Journal of Food Processing and Preservation, 08/2009 Publication	< %
35	www.omicsonline.org Internet Source	<%1
36	mbrc.res.in Internet Source	<%1
37	w3.ualg.pt Internet Source	<%1
38	www.truefood.eu Internet Source	<%1
39	Atlas, . "Media, Alphabetical", Handbook of Microbiological Media Third Edition, 2004.	<%1
40	Bisen, . "Appendix B", Laboratory Protocols in Applied Life Sciences, 2014. Publication	<%1
41	Atlas, . "Z", Handbook of Media for Environmental Microbiology Second Edition, 2005. Publication	<%1
42	Faidon Magkos. "Organic Food: Buying More	<%1

K. P. JOSE. "SOLAR TUNNEL DRYING OF

<%1

Safety or Just Peace of Mind? A Critical Review of the Literature", Critical Reviews in Food Science and Nutrition, 1/1/2006

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