



Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya

Paul Waithaka

Download now

[Click here](#) if your download doesn't start automatically

Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya

Paul Waithaka

Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya Paul Waithaka

Master's Thesis from the year 2014 in the subject Biology - Micro- and Molecular Biology, grade: 67.13, Kenyatta University (Pure and applied sciences), course: MSc. Microbiology, language: English, abstract: Salmonellosis is one of the most common and widely distributed group of enteric diseases in the world today. It causes high mortality and morbidity especially in developing countries. This study was aimed at identifying the factors that predispose people to salmonellosis. In addition the study was meant to isolate Salmonella, and determine its antimicrobial sensitivity and test the effectiveness of water treatment for the control of salmonellosis. To identify the predisposing factors of salmonellosis, a questionnaire was used. For the isolation of Salmonella, a total of 630 samples were collected from raw cows' milk, sheep and cattle intestinal wastes, raw fruit and vegetable salads, waste water, water sources and water that had been treated by the study population through boiling, chlorination and filtration. Samples were also collected from water that was treated through solar disinfection. The samples were pre-enriched using peptone water then selectively enriched using Selenite F broth and incubated at 37 oC for 24 hrs and subcultured in xylose lysine desoxycholate (XLD) agar and Salmonella- Shigella agar in five replicates. Typical Salmonella colonies were confirmed by biochemical test using API E-20 and the species serotyped. The isolated serovars were tested against seven antibiotics; cephalixin, nalidixic acid, chloramphenicol, ciprofloxacin, gentamicin, amoxicillin and sulfa-trimethoprim. The results were analyzed by the use of chi-square test, correlation test and Anova using Statistical Package for Social Sciences (SPSS version 11.50) software. Level of education, occupation, method of food storage, cleaning of kitchen utensils, hand washing, human waste disposal, animal wastes, presence or absence of sewers, waste water, tap water, river water and water treatment were significantly associated with salmonellosis while sex, well water and method of water treatment were not. There was no significant difference between the microbial load of Salmonella isolates from milk, sheep and cattle intestinal wastes, waste water, fruits and vegetable salads in Maili 5, Bahati and Kabatini. However, River Kandura's water mean Salmonella isolates varied significantly from upstream to downstream. Of the 105 Salmonella isolates Salmonella enterica serovar Typhimurium were (45.7 %), S. enterica serovar Typhi (22.9 %), S. enterica serovar Enteritidis (21.9 %) and S. enterica serovar Dublin (9.5 %). All the serovars were susceptible to gentamicin.

 [Download Predisposing Factors, Isolation, Sensitivity to An ...pdf](#)

 [Read Online Predisposing Factors, Isolation, Sensitivity to ...pdf](#)

Download and Read Free Online Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya Paul Waithaka

From reader reviews:

Antonio Haynie:

Why don't make it to become your habit? Right now, try to prepare your time to do the important work, like looking for your favorite book and reading a e-book. Beside you can solve your long lasting problem; you can add your knowledge by the book entitled Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya. Try to make the book Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya as your pal. It means that it can being your friend when you feel alone and beside regarding course make you smarter than in the past. Yeah, it is very fortunated for yourself. The book makes you much more confidence because you can know anything by the book. So , let me make new experience as well as knowledge with this book.

Jeffrey Osburn:

Here thing why this Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya are different and trustworthy to be yours. First of all reading through a book is good but it really depends in the content from it which is the content is as delicious as food or not. Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya giving you information deeper including different ways, you can find any reserve out there but there is no guide that similar with Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya. It gives you thrill reading through journey, its open up your eyes about the thing that happened in the world which is possibly can be happened around you. It is possible to bring everywhere like in park your car, café, or even in your means home by train. For anyone who is having difficulties in bringing the printed book maybe the form of Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya in e-book can be your choice.

Jessica Hodgkins:

You can spend your free time you just read this book this e-book. This Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya is simple to develop you can read it in the recreation area, in the beach, train in addition to soon. If you did not have got much space to bring the actual printed book, you can buy often the e-book. It is make you better to read it. You can save typically the book in your smart phone. Therefore there are a lot of benefits that you will get when you buy this book.

Ethelyn Allen:

You can find this Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya by look at the bookstore or Mall. Simply viewing or

reviewing it may to be your solve issue if you get difficulties to your knowledge. Kinds of this e-book are various. Not only by simply written or printed but also can you enjoy this book simply by e-book. In the modern era like now, you just looking of your mobile phone and searching what your problem. Right now, choose your own personal ways to get more information about your book. It is most important to arrange you to ultimately make your knowledge are still change. Let's try to choose right ways for you.

**Download and Read Online Predisposing Factors, Isolation,
Sensitivity to Antibiotics and Control Methods of Salmonellosis in
Nakuru North Sub-County, Kenya Paul Waithaka
#2UAW5DHN7CP**

Read Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya by Paul Waithaka for online ebook

Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya by Paul Waithaka Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya by Paul Waithaka books to read online.

Online Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya by Paul Waithaka ebook PDF download

Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya by Paul Waithaka Doc

Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya by Paul Waithaka Mobipocket

Predisposing Factors, Isolation, Sensitivity to Antibiotics and Control Methods of Salmonellosis in Nakuru North Sub-County, Kenya by Paul Waithaka EPub