



Finding a new serovar of *Salmonella. diarizonde* from Frozen large yellow croaker

Xiao-Rong Huang, Lu-Xing Liao, Guo-Kui Zheng, Guo-Xin Ji

Xiao-Rong Huang, Lu-Xing Liao, Guo-Kui Zheng, Fujian Entry-Exit Inspection and Quarantine Bureau, Fuzhou 350001, Fujian Province, China

Guo-Xin Ji, China National Institute for the Control of Pharmaceutical and Biological Products, Beijing 100050, China

Author contributions: All authors contributed equally to the work.

Correspondence to: Dr. Xiao-Rong Huang, Fujian Entry-Exit Inspection and Quarantine Bureau, 131 Dongjie, Fuzhou 350001, Fujian Province, China
Telephone: +86-591-7508447-16
Fax: +86-591-7508447-16

Received: November 9, 1999
Revised: June 2, 2000
Accepted: July 10, 2000
Published online: September 15, 2000

Abstract

AIM: To determine the serumal type of a species of salmonella which was isolated from imported frozen large yellow croaker.

METHODS: Aseptically weigh 25 g gill and viscera of the fish into sterile wide-mouth 500 mL jar. Add 225 mL sterile buffered protein broth (BP) and incubate 18-24 h at 36 ± 1 °C. Gently shake incubated sample mixture, and transfer 1 mL to 10 mL selenite cystine broth (SC), add additional 1 mL to 10 mL tetrathionate broth (TTb). Incubate 18-24 h at 36 ± 1 °C. Streak 1 loopful of incubated SC on selective media plates of DHL. Repeat with 1 loopful of incubated TTb and incubate plates 24 h at 36 ± 1 °C. From DHL, pick with needle 3 typical *Salmonella* colonies-colorless with black centers. Inoculate Ktizer's Iron agar (KIA) and Lysine motility agar (LMA) for screening. Finally they are suggested to be *Salmonella*. Then apply

biochemical and serological identification tests to 3 presumptive positive samples reexamined by China National Institute for the Control of Pharmaceutical and Biological Products and certified by WHO Collaborating Center for Reference and Research on *Salmonella*.

RESULTS: According to the biochemical reaction, accordance with the characteristics of *Salmonella* and the ability to utilize malonate, dulcitol negative, ONPG positive, KCN negative *etc.* the specialities can be primarily determined as subgroup III. Basing on the results of serological examinations it can be defined as O₅₀ group. Its H antigen revealed a phase H₂₆₆, Z₅₇, Z₆₈, but the another phase still remained undiscovered. The reexamining result of China National Institute for the Control of Pharmaceutical and Biological Products (checking No. SJKS 961037): Through Gram stain, culture, biochemical and serological examinations this bacterium remained unverified and suggested to send the specimen to WHO *Salmonella* Central Laboratory for checking up. WHO Collaborating Center for Reference and Research on *Salmonella* appraised this species as a new serumal type of *Salmonella. diarizonde* with serumal type 50:K:Z₅₇:Z₆₈ NT (checking No. 8687).

CONCLUSION: The species of *Salmonella* was certified to be a newly discovered serovar of *Salmonella*.

Key words: *Salmonella. diarizonde*; New serovar; Frostbite; Croaker

© The Author(s) 2000. Published by Baishideng Publishing Group Inc. All rights reserved.

Huang XR, Liao LX, Zheng GK, Ji GX. Finding a new serovar of *Salmonella. diarizonde* from Frozen large yellow croaker. *World J Gastroenterology* 2000; 6(Suppl 3): 106 Available from: URL: <http://www.wjgnet.com/1007-9327/full/v3/iSuppl3/106.htm> DOI: <http://dx.doi.org/10.3748/wjg.v3.iSuppl3.106>

E- Editor: Hu S



Published by **Baishideng Publishing Group Inc**

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: bpgoffice@wjgnet.com

Help Desk: <http://www.wjgnet.com/esps/helpdesk.aspx>

<http://www.wjgnet.com>

