

ISOLATION AND CHARACTERIZATION OF *Streptococcus agalactiae* FROM THAILAND FROG (*Rana tigerina*) CULTURED IN THUA THIEN - HUE PROVINCE, VIETNAM

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Summary

From 20 diseased frog (*Rana tigerina*) that culture at Huong Tra and Phu Loc district, Thua Thien - Hue province, 20 small cocci, gram positive bacteria isolates were recovered. Bacteria isolates were non-motile, oxidase, catalase and bile-esculin negative and they were identified as *Streptococcus agalactiae* serotype Ib (13 isolates) and *S. agalactiae* serotype III (7 isolates) using a Lancefield test kit, API 20 strep system and slide agglutination method. Challenge experiments using injection method showed that they can cause the observed disease signs with the LD₆₀ value of 2×10^5 cfu/mL (*S. agalactiae* TTHHT001, serotype Ib) and 6.3×10^3 cfu/mL (*S. agalactiae* TTHPL008, serotype III). The results of antibiotic resistant tests showed that most of isolates were sensitive to ofloxacin and 3 antibiotics that belong to β -lactam group (oxacilin, ampicillin và amocillin), however all isolates resistant to oxytetracycline. This is the first report of *S. agalactiae* serotype III outbreak in Thailand frog in Vietnam.

Keywords: *Thailand frog, Rana tigerina, Streptococcus agalactiae, serotype Ib, serotype III.*