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, catlase 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 LD$_{60}$ value of 2 x $10^5$ cfu/mL (*S. agalactiae* TTHHT001, serotype Ib) and 6.3 x $10^3$ 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.