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Induction of triploidy in spotted sand bass (*Paralabrax maculatofasciatus* Steindachner, 1868) by cold shock

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Conditions for the induction of triploidy with cold shock of fertilized eggs of the spotted sand bass *Paralabrax maculatofasciatus* (Steindachner) were investigated. Different temperatures (12, 8 and 4 °C), timing of cold shock application (5, 10 and 15min after fertilization) and duration of the shock (5,10,15 and 20min) were tested. Triploidy was determined using flow cytometry at 12 h after larvae hatched. Triploids were produced only when the cold shock treatment was applied 5 min after fertilization. No significant difference was observed in the percentage of triploidy between temperature and the shock duration. At 8 and 4 °C, 100% triploidy was obtained at different durations of cold shock. Survival was significantly lower at 12 or 4 °C than at 8 °C. No significant difference was observed for shock duration at the temperature of 8 or 12 °C; however, at 4 °C, survival was significantly lower at longer durations. We recommend induction of triploidy by applying cold shock at 8 °C for a duration of 15-20 min starting at 5 min after fertilization, in the spotted sand bass

Palabras clave: triploidy, Spotted sand bass, cold shock

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