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Nonylphenol에 의한 플랑크톤 (*Synechogobius hastus*) 수컷에서 난황전구단백질의 RT-PCR 검출법

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In an effort to inspect endocrine disruption by xenoestrogen in the aquatic environment of Korea, RT-PCR analysis of vitellogenin (Vg) mRNA expression were examined in male liver of *Synechogobius hastus* following nonylphenol (NP) treatment. 5 days after single injection of NP (1 mg/kg BW) the significant induction of Vg mRNA was detected. 2 days after 2nd injection Vg mRNA was detected in NP 0.1 mg/kg BW group. This result suggests that NP is estrogenic in male liver of *Synechogobius hastus* and that continuous exposure to NP decrease the lowest-observed-effect level (LOEL).