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Inhibition of DNA amplification in marine fish larvae preserved in formalin

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Recent advances in molecular biology open the possibility to use formalin-preserved specimens stored in ichthyoplankton collections for population genetics studies. Nine DNA extraction techniques were tested on **Engitivedisamphidicationvarf preserved direchendriduDNAA (ontDNiA.)** [(NAE)H1, nb/mrRN the IDNRNAAtrants cesuited regibne fractions). An experiment with different length-time exposure to formalin done with Cynoscion parvipinnis larvae allowed us to confirm the difficulty of amplifying mtDNA from larvae preserved in formalin for long time periods and the possibility of DNA extraction and amplification from short-term (less than 48 h) formalin-fixed marine fish larvae preserved in ethanol (70%). We discuss the possible influence of physical-chemical complexes associated with the duration of preservation to inhibition of amplification reactions.

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