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**Methodology for Immersion Marking Walleye Fry  
and Fingerlings in Oxytetracycline Hydrochloride  
and Its Detection with Fluorescence Microscopy**

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*Abstract.*—This manual summarizes the process of conducting walleye stocking evaluations based on immersion marking with oxytetracycline hydrochloride. The summary includes methodology for application of the immersion treatment in the hatchery setting, detection of the mark using fluorescence microscopy and some considerations for planning evaluations based on the technique. The methodology described here was based on available literature and refined to meet the specific needs of the Michigan Department of Natural Resources, Fisheries Division.