

Method for bioassaying water toxicity and freshwater bottom sediments in which test specimens are introduced into water samples, aqueous extracts, and interstitial water from bottom sediments. The test specimens include planktonic and benthos organisms. *Ceriodaphnia affinis*, *Daphnia magna*. *Ceriodaphnia affinis* and *Daphnia magna* are used as planktonic organisms. *Echinogammarus ischnus*, *Hyalella azteca*. are used as benthos organisms. Test specimens are introduced into the experimental and control media, and the motility of the organisms in the test containers is assessed 4, 8, and 24 hours after the test specimens are introduced into the experimental and control media. Automatic video recording of the test specimens physical activity is performed.