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ABSTRACT

Disclosed is a bioassay method in which, by controlling the electric field formation in the reaction region where an interaction between substances, such as a hybridization, is performed, the efficiency of the interaction can be improved. Also disclosed is a bioassay apparatus in which the method can be favorably carried out. In the method, an interaction between substances is detected by a detecting element 1 (10), the detecting element including at least a detection surface S (S') which is surface-treated for immobilizing a detecting substance D, a reaction region R (R') which provides a field for interaction between the detecting substance D immobilized on the detection surface S (S') and a target substance T, and an electric field-forming means E which forms an electric field in the reaction region R (R') by applying a potential difference in the reaction region R (R'), and the method includes at least a step of turning on/off the electric field formation by the electric field-forming means E at a predetermined timing.