METHOD FOR PERFORMING SINGLE-CELL ANALYSIS AND DEVICE THEREFOR

[Abstract]

The present invention provides a genome library production method in which cell lysis and genome amplification are performed using a simple operation. More particularly, the present invention provides a method that is for amplifying polynucleotides in cells and that comprises: a step for using a sample containing two or more cells or cell-like structures, and encapsulating the cells or cell-like structures into droplets, one for each droplet; a step for gelling the droplets to generate gel capsules; a step for performing lysis of the cells or cell-like structures by immersing the gel capsules in one or more types of reagents for lysis so as to cause the polynucleotides in the cells to be eluted in the gel capsules and to be kept in the gel capsules in a state where substances binding to the polynucleotides are removed; and a step for bringing the polynucleotides into contact with a reagent for amplification to amplify the polynucleotides in the gel capsules.

(No Suitable Figure)