Abstract

EVALUATION METHOD AND SELECTION METHOD FOR INDUCED PLURIPOTENT STEM CELLS, AND PRODUCTION METHOD FOR INDUCED PLURIPOTENT STEM CELLS

The present invention provides a method for evaluating induced pluripotent stem cells, containing a step of providing cultured induced pluripotent stem cells, a step of measuring spontaneous frequency of an organelle having an abnormal nucleic acid structure in the provided induced pluripotent stem cells, and a step of identifying induced pluripotent stem cells having a spontaneous frequency of not more than a reference value, and induced pluripotent stem cells having the spontaneous frequency exceeding the reference value, as well as a method for selecting induced pluripotent stem cells further containing a step of selecting induced pluripotent stem cells having the spontaneous frequency of not more than the reference value. Furthermore, the present invention provides a production method of induced pluripotent stem cells, containing a step of providing established and cultured induced pluripotent stem cells, a step of measuring a spontaneous frequency of an organelle having an abnormal nucleic acid structure in the provided induced pluripotent stem cells, a step of identifying induced pluripotent stem cells having the spontaneous frequency of not more than a reference value, and induced pluripotent stem cells having the spontaneous frequency exceeding the reference value, and a step of selecting induced pluripotent stem cells having the spontaneous frequency of not more than the reference value.

[No suitable figure]