

Motorized Injector and Manual Injector

The two types of injectors, motorized and manual, can be used for microinjection of DNA or other solutions. In this news, we compare the two types of injectors and discuss the differences.

Recommended Models



IM-300

There are several models of motorized and manual injectors to choose from. In this issue we will describe the differences between the IM-300 motorized injector and the IM-9 series of manual injectors.



IM-9B

Characteristics and Differences

<IM-300>

- Pressure, timing and count are adjustable and programmable. Features high repeatability.
- Allows the control of not only injection side but also holding side. Injection into floating cells is possible with one unit.

Other apparatuses are required to use the IM-300 (see below).

<IM-9 Series>

- The fluid keeps running out from a pipette tip in the process of DNA microinjection. You could say, that microinjection is performed by the senses. However, the IM-9 series is still popular because the easy-to-use features allow for simple operation and can meet versatile purposes.
- Manual injectors are commonly used for ES cell injection, nuclear cell transfer and ICSI, etc.

Bits of Knowledge about Microinjection

Apparatuses Required for IM-300

A compressor or gas cylinder is separately required for the IM-300. A regulator is additionally required when a gas cylinder is used.

The IM-300 is supplied with an input hose. The input hose includes the "PC1/4-02 (made by PISCO)" connector as an accessory to connect the hose to a compressor or regulator.

Gas Cylinders for IM-300

Air or nitrogen is commonly used with the IM-300.