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# **Drawell SJ-500 Portable Gene Gun**

## **Product manual**

The Portable Gene Gun is a portable gene gun device that enables fast and direct in situ gene transfer of cells, suitable for both transient and stable transfection. Compared with the desktop gene gun, the SJ-500 gene gun is small in size and easy to carry. It is a device with a smaller shooting area and a more uniform particle distribution. It is simpler and more time-saving in the preparation of samples with gold powder microcarriers. , is widely used in gene transformation research of animal and plant samples.

## **Performance characteristics**

- Portable, flexible for in vitro transgenic experiments;
- Low noise, high repeatability, convenient for the transformation of live animals;
- Transformation of cells with special growth needs that cannot be accomplished by other methods;
- The shooting area is small and the particles are evenly distributed, which can convert receptors of different sizes, ensuring the conversion efficiency;
- Simple, fast, flexible in function, common to various cell types;
- Contribute to instant expression and stable expression;
- Only a small amount of DNA and cells are required, and no carrier DNA is required;
- Can carry out multi-plasmid co-introduction, no restriction on large fragments of DNA;

## Instrument parameters

- 1. Model: SJ-500
- 2. Experimental conditions: in situ, in vitro, in vivo
- 3. Target area: (small) 2cm<sup>2</sup>
- 4. Pressure range: 0.5-5MPa (12 times per revolution)
- 5. Target type: animal cells, plant cells, living plant leaves, living animal skin, muscle, living animal organs
- 6. Voltage: 9V (can launch 1000 times)
- 7. Gas source: helium or nitrogen
- **8. Metal particles:** Φ0.8-1.5μm, Φ1.5-3.0μm
- 9. Bombardment method: direct spotting of magazines or nylon tube preparation

