Gene Shot Control Cartridges

Catalog Number 165-2244

Specifications

Contents

Twelve cartridges, for use in the Helios Gene Gun, packed with desiccant capsule in a cartridge storage vial. Each cartridge contains 0.5 mg of 1.6 µ gold and produces 2 x 10^7 reporter gene expressing CHO cells per cartridge. 

Storage

Store tightly capped, with parafilm around the top, at 4 °C with a desiccant. Before opening, allow vial to come to room temperature.

Quality

The biological efficiency of control cartridges was determined by expression of β-galactosidase and luciferase in cell extracts of CHO cells 24 hr post-delivery using the Helios Gene Gun. These reporter genes are expressed from a constitutive high-level promoter that is active in all animal cells.

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Specifications

Contents Twelve cartridges, for use in the Helios Gene Gun, packed with a desiccant capsule in a cartridge storage vial. Each cartridge contains 0.5 mg of 1.6 µ gold (catalog number 165-2264) coated with 1 µg (~0.20 pmole) of a plasmid encoding a β-galactosidase reporter gene and with 0.3 µg (~0.076 pmole) of a plasmid encoding a luciferase reporter gene. These reporter genes are expressed from a constitutive high-level promoter that is active in all animal cells.

Storage Store tightly capped, with parafilm around the top, at 4 °C with a desiccant pellet (supplied). Before opening, allow vial to come to room temperature.

Quality control The biological efficiency of the cartridges was determined by expression of β-galactosidase and luciferase in cell extracts of CHO cells 24 hr post-delivery using the Helios Gene Gun with the screen (catalog number 165-2425). CHO cells attached to 35 mm tissue culture plates bombarded at 200 psi with these cartridges express ≥ 5 x 10^6 RLU of luciferase in a 10 sec counting period per 10^5 cells and produce ≥ 20 nmole of 4-methylumbelliferyl-β-D-galactopyranoside per 10^5 cells when assayed with the FluorAce™ β-galactosidase Assay Kit (catalog number 170-3150).