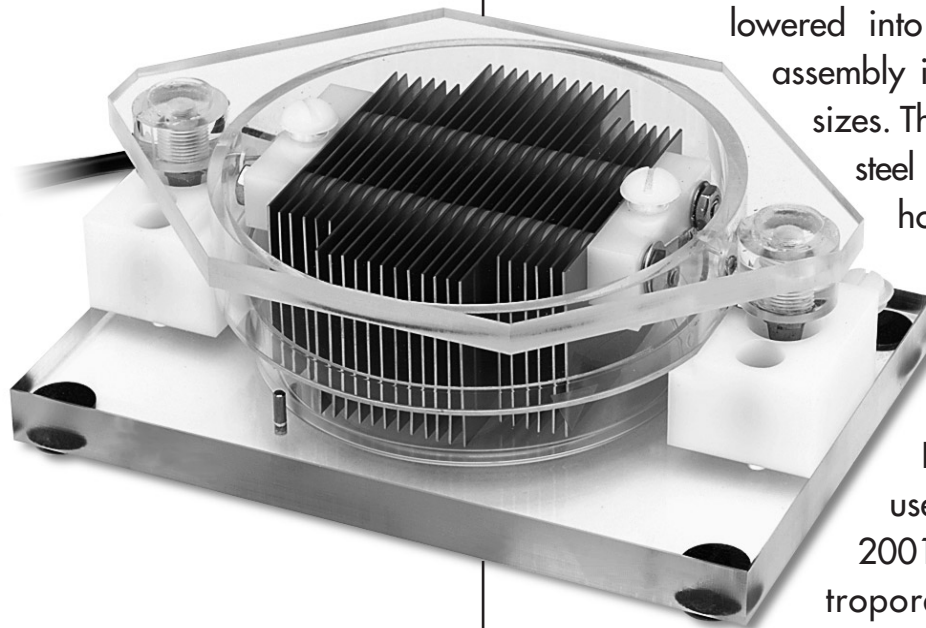


Petri Dish Electrodes

TECHNICAL SPECIFICATIONS



The Petri Dish Electrodes are designed to be used with a 100mm petri dish which functions as the electroporation chamber. To perform electroporation or electrofusion, the samples are placed in the petri dish and the electrode assembly is lowered into the dish. The electrode assembly is available in 2 mm gap sizes. They contain parallel stainless steel electrodes which produce homogeneous fields. The electrodes are designed to electroporate volumes ranging from 10 to 50 ml. The Petri Dish Electrode can be used with the ECM 830, 630, 2001, 600, and T 820 electroporation systems.

The Electroporation Experts



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ORDERING INFORMATION

Model	Description
366	100 mm Petri Dish Electrode - 2 mm gap / 50 ml

APPLICATIONS

The 2mm gap Petri Dish Electrode can be used for electroporation of tissues grown right in the petri dish. Simply add the exogenous molecule of interest, mix and electroporate. Both Marrero⁽¹⁾ and Fukai, et al,⁽²⁾ used the PertriDish electrodes along with the BTX T820 in stable transfection of vascular smooth muscle cells (VASM). Plasmid DNA was also successfully transmitted into human umbilical vein endothelial cells HUVEC by Lewis, et al,⁽³⁾ using the PetriDish electrodes along with the BTX T820.

1.) M.B. Marrero, et al, *Electroporation of pp60-c-src Antibodies Inhibits the Angiotensin II Activation of Phospholipase C-gamma-1 in Rat Aortic Smooth Muscle Cells*, Journal of Biological Chemistry, Vol. 270 No. 26 pp. 15734-15738 (1995)

2.) Masuko Ushio-Fukai, et al, *Angiotensin II receptor coupling to phospholipase D is mediated by the betagamma subunits of the heterotrimeric G proteins in vascular smooth muscle cells*, Molecular Pharmacology, Vol. 55 No. 1 pp. 142-149 (1999)

3.) E.W. Lewis, et al, *Endothelial cell DNA transfer and expression using Petri dish electroporation and the nonreplicating vaccinia virus/T7 RNA polymerase hybrid system*, Gene Therapy, Vol. 6 No. 9 pp. 1617-1626 (1999)