

Cyto Pulse Electroporation
and Electrofusion Systems for:
In vivo therapeutic delivery
Gene therapy
Immunotherapy
Hybridoma production
Vaccine delivery
Nuclear transfer

mRNA delivery
siRNA delivery
plasmid delivery

Cytoporation® Medium

For use with:

- PA-3000
- PA-4000
- Cyto-LVT electroporation devices

- Used for eukaryotic electroporation applications
- High efficiency, high viability sample delivery
- Low conductivity prevents overheating and reduces potential for electrode arcing
- Three formulations available – optimize conductivity to cell type
- Balanced osmolarity reduces cell lysis
- Contains no animal products



Cytoporation® Media are designed to increase transfection efficiency while maintaining high cell viability in a wide variety of eukaryotic cell types. The low conductivity properties of Cytoporation® Media make these superior to other commonly used buffers in reducing the risk of sample overheating and cuvette arcing. Cytoporation® Media are sterile filtered and made from the highest quality medical-grade reagents. Cytoporation® Media are compatible with *ex vivo* delivery of DNA, RNA, oligonucleotides, and siRNA.

Cytoporation® Medium Specifications

Volume	500 ml
Osmolarity	270-290 mOsm/L
Conductivity @ 25°C	T: 80 ± 5 µS/cm T-2: 1.95 ± 0.05 mS/cm T-4: 3.45 ± 0.05 mS/cm
pH	7.2 ± 0.2
RNase	None Detected
DNase	None Detected
Endotoxin	< 0.25 EU/ml
Sterility	Sterile

Ordering

CP-T	Cytoporation® Medium T
CP-T-2	Cytoporation® Medium T-2
CP-T-4	Cytoporation® Medium T-4

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Storage Information

Store at 2-8°C. Short term storage (i.e. for shipping) at -20°C to +50°C for up to 7 days is acceptable. Contents may separate upon freezing. If frozen, mix well before use.

Warnings and Disclaimers

Do not use if tamper proof seal is missing or bottle is damaged. Damage to the bottle or deliberate tampering may result in contamination of this product. Check product for clarity before use.

Cytoporation® Media are intended for research and investigational purposes only. It is not intended for human use. This product is not considered to be hazardous based on evaluations made under OSHA Hazard Communication Standard 29 CFR 1910.1200.

Considerations for Use

Standard aseptic techniques are recommended to avoid contamination during use.

Cytoporation® Media are low conductivity solutions designed for efficient electroporation. Trace amounts of high conductivity solutions such as PBS or tissue culture growth medium can disrupt the electroporation process. Therefore, at least two cell washes in Cytoporation® Medium are recommended prior to electroporation.

Use Cytoporation® Media at room temperature for efficient electroporation. Cell washes prior to the terminal wash may be carried out at 4°C.

Cytoporation® Media are non-toxic. However, they do not contain nutrients to support cell viability over long periods of time. For best results, minimize the time that cells are suspended in Cytoporation® Medium.

Cells in Cytoporation® Medium can be diluted in cell culture medium without washing the cells. A minimum dilution of five parts complete culture medium to one part Cytoporation® Medium is recommended. Alternatively, cells may be washed in growth medium to completely remove Cytoporation® Medium prior to culturing.

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