

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

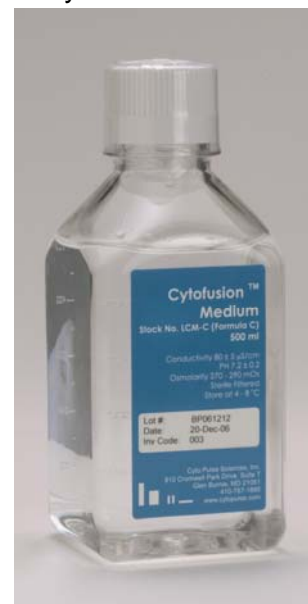
mRNA delivery  
siRNA delivery  
plasmid delivery

**Cytofusion® Electrofusion Medium – Formula C**

For use with:

Hybrimune - The Hybridoma Production System  
PA-4000/PA-101 – Laboratory Research Electrofusion System

- Used for eukaryotic electrofusion applications
- Stable environment for cell alignment during dielectrophoresis
- Low conductivity prevents sample overheating
- Osmolarity balance halts lysis due to over-swelling
- Contains no animal products



The leader in low conductivity electrofusion medium, Cyto Pulse Sciences' proprietary Cytofusion® Medium is designed to promote efficiency while preserving high cell viability during cell fusion. Cytofusion® Medium's low conductivity properties are superior to those of PBS in greatly reducing cell turbulence from excessive ion interference during cell alignment (i.e. pearl chain formation). This proprietary blend is sterile filtered and made from the highest quality non-animal, medical-grade reagents. Cytofusion® Medium is used by numerous commercial biotech and pharmaceutical companies in their hybridoma generation process for monoclonal antibody discovery.

<b>Cytofusion® Medium Specifications</b>	
Volume	500 ml
Osmolarity	270-290 mOsm/L
Conductivity	80 ± 5 µS/cm @ 25°C
pH	7.2 ± 0.2
Endotoxin	< 0.25 EU/ml
Sterility	Sterile
Expiration	18 months from production date (medium is shipped within 6 mo. of production)

**Ordering**

LCM-C	Cytofusion® Medium, Formula C
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## **Cytofusion<sup>®</sup> Electrofusion Medium – Formula C**

### **Storage Information**

Store at 2-8°C. Short term storage (i.e. for shipping) at -20°C to +50°C for 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.

Cytofusion<sup>®</sup> Medium is 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.

Cytofusion<sup>®</sup> Medium, Formula C is a low conductivity medium designed for efficient electrofusion. Trace amounts of high conductivity solutions such as PBS or tissue culture growth medium can disrupt the fusion process. Therefore, it is critical to wash the cells thoroughly with Cytofusion<sup>®</sup> Medium prior to the fusion process. For up to  $5 \times 10^7$  cells, at least two washes in Cytofusion<sup>®</sup> Medium are recommended. For more than  $5 \times 10^7$  cells, at least three washes are recommended.

Other sources of ionic contamination should be avoided. Clean the electrofusion chamber after each use and rinse well with sterile, deionized water.

Use Cytofusion<sup>®</sup> Medium, Formula C at room temperature for efficient cell fusion. Cell washes prior to the terminal wash may be carried out at 4°C.

Cytofusion<sup>®</sup> Medium, Formula C is non-toxic. However, it does not contain nutrients to support cell viability over long periods of time. Use cells suspended in Cytofusion<sup>®</sup> Medium as soon as possible. It is not recommended that cells remain in Cytofusion<sup>®</sup> Medium longer than one hour subsequent to the final wash.

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

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