



# BTXpress Cytofusion®

## ELECTROFUSION MEDIUM C TECHNICAL SPECIFICATIONS

### FEATURES & BENEFITS

- Optimized for eukaryotic electrofusion applications
- Maximum fusion efficiency, high cell viability
- Stable environment for cell alignment
- Low conductivity means minimal heating
- Physiological pH and Balanced Osmolarity
- Contains no animal products

### ADVANCED BUFFER FOR HIGH PERFORMANCE CELL FUSION

BTXpress Cytofusion® Medium C is an advanced electrofusion buffer designed for use with the BTX Hybrimmune System for high performance cell fusion applications. The low conductivity buffer is specially-formulated to minimize cell turbulence during cell alignment and heating during electrofusion for robust cell fusion efficiency and high cell viability.

BTXpress Cytofusion® Medium C is sterile filtered from the highest quality non-animal, medical-grade reagents. It is the buffer of choice for many commercial biotech and pharmaceutical companies in their hybridoma generation process for monoclonal antibody discovery.

# BTXpress Cytofusion<sup>®</sup> TECHNICAL SPECIFICATIONS

## CYTOFUSION<sup>®</sup> MEDIUM SPECIFICATIONS

<b>Volume</b>	500 ml
<b>Osmolarity</b>	270-290 mOsm/L
<b>Conductivity @ 25°C</b>	0.080 ± 0.005 mS/cm
<b>pH</b>	7.2 ± 0.2
<b>Endotoxin</b>	< 0.25 EU/ml
<b>Sterility</b>	Sterile filtered
<b>Storage</b>	2 to 8 °C
<b>Shelf-life</b>	18 months from production date (shipped within 6 months of production)

## STORAGE INFORMATION

Store at 2-8°C after opening. 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.

## RECOMMENDATIONS FOR USE

Maintain a sterile environment. Standard aseptic techniques are recommended to avoid contamination during use.

Thorough, repeated wash-in. BTXpress Cytofusion<sup>®</sup> Medium 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 BTXpress Cytofusion<sup>®</sup> Medium C prior to the fusion process. For up to 5 x 10<sup>7</sup> cells, at least two washes in BTXpress Cytofusion<sup>®</sup> Medium C are recommended. For more than 5 x 10<sup>7</sup> cells, at least three washes are recommended.

Thoroughly clean electrofusion chamber. To avoid other sources of ionic contamination, clean the electrofusion chamber after each use and rinse thoroughly with sterile, deionized water.

Room Temperature Electrofusion. For maximum efficiency cell fusion, use BTXpress Cytofusion<sup>®</sup> Medium C at room temperature. Cell washes prior to the final wash may be carried out at 4°C.

Minimize time in buffer. While Cytofusion<sup>®</sup> Medium C is non-toxic, it does not contain nutrients to support cell viability over long periods of time. For best results, minimize the time that cells are

suspended in BTXpress Cytofusion<sup>®</sup> Medium C. It is not recommended that cells remain in BTXpress Cytofusion<sup>®</sup> Medium C longer than one hour subsequent to the final wash.

5:1 Direct Dilution. Post-electrofusion, Cells in BTXpress Cytofusion<sup>®</sup> Medium C can be diluted in cell culture medium without washing the cells. A minimum dilution of five parts complete culture medium to one part BTXpress Cytofusion<sup>®</sup> Medium C is recommended. Alternatively, cells may be washed in growth medium to completely remove BTXpress Cytofusion<sup>®</sup> Medium C prior to culturing.

## WARNINGS & 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.

BTXpress 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.

## ORDERING INFORMATION

Catalog #	Description
47-0001	BTXpress Cytofusion <sup>®</sup> Electroporation Medium C

## TECHNICAL & CUSTOMER SERVICE

For further references regarding specific applications and optimization, please contact BTX Technical Support:

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If outside the United States or Canada: call **508-893-8999** or contact your nearest BTX Distributor.

**BTX<sup>®</sup>**

**HARVARD APPARATUS**

The Electroporation Experts

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