



BTXpress™ Cytoporation®

ELECTROPORATION MEDIA T & T4 TECHNICAL SPECIFICATIONS

FEATURES & BENEFITS

- Optimized for eukaryotic electroporation applications
- Maximum transfection efficiency, high cell viability
- Low conductivity means minimal heating or electrode arcing
- Two formulations available – optimized conductivity to cell type
- Physiological pH and Balanced Osmolarity
- Contains no animal products
- Certified RNase and DNase free

ADVANCED BUFFER FOR HIGH PERFORMANCE TRANSFECTION

BTXpress Cytoporation® Media T & T4 is an advanced electroporation buffer designed for use with the BTX AgilePulse MAX Large-Volume Electroporation Systems for ex vivo in vitro delivery of DNA, RNA, oligonucleotides, and siRNA. The low-conductivity buffer is specially-formulated to minimize heating of solution during large volumes electroporation for maximum transfection efficiency and high cell viability.

BTXpress Cytoporation® Media is sterile-filtered from the highest quality non-animal, medical-grade reagents. Two formulations with different conductivities are available for optimum conductivity for each eukaryotic cell types. Buffer can be directly diluted in complete growth media for post-electroporation cell culture.

CYTOPORATION® MEDIA SPECIFICATIONS

| | |
|----------------------------|----------------------------------|
| Volume | 500 ml |
| Osmolarity | 270-290 mOsm/L |
| Conductivity @ 25°C | |
| T Media: | 0.080 ± 0.005, 1.95 ± 0.05 mS/cm |
| T4 Media: | 3.45 ± 0.05 mS/cm |
| pH | 7.2 ± 0.2 |
| RNase: | None Detected |
| DNase: | None Detected |
| Endotoxin: | < 0.25 EU/ml |
| Sterility: | Sterile filtered |
| Storage: | 2 to 8°C |

RECOMMENDATIONS FOR USE

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

Thorough, repeated washing. Cytoporation® Media T & T4 is a low-conductivity solution designed for efficient electroporation. Trace amounts of high conductivity solutions such as PBS or tissue culture growth media can disrupt the electroporation process. Therefore, at least two full washes in Cytoporation® Media T & T4 are recommended prior to electroporation.

Minimize time in buffer. While Cytoporation® Media T & T4 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 Cytoporation® Media T & T4.

5:1 Direct Dilution. Post-electroporation, Cytoporation® Media T & T4 can be directly diluted in cell culture media without washing the cells. A minimum dilution of five parts complete culture media to one part Cytoporation® Media T & T4 is recommended. Alternatively, cells may be washed in growth media to completely remove Cytoporation® Media T & T4 prior to culturing.

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.

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.

Cytoporation® Media T & T4 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 |
|-----------|----------------------------------|
| 47-0002 | BTXpress™ Cytoporation® Media-T |
| 47-0003 | BTXpress™ Cytoporation® Media-T4 |

TECHNICAL & CUSTOMER SERVICE

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

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HARVARD APPARATUS

The Electroporation Experts

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