

Certificate of Analysis

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|---|------------------------------------|
| Description: HEPES Buffer 1M Solution (238.3 mg/mL) | Catalog #: 25-060-CI |
| Storage: 2-30°C | Lot #: 28118005 |
| | Expiration Date: 10/20 |
| | Country of Manufacture: USA |

Notes:

Mediatech, Inc. products are prepared by a validated aseptic sterile filtration process to ensure that all products comply with the industry's Sterility Assurance Level (SAL) of at least 10^{-3} (i.e. demonstrating that a product produced in this manner has no more than 1 random contaminant per 1000 units).

This product was tested in accordance with currently approved Mediatech, Inc. specifications and procedures. Testing procedures are maintained in compliance with the current versions of the USP and/or EP, where applicable.

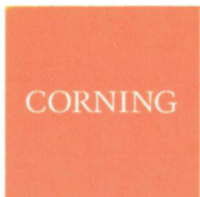
For Research Use Only. Not for Human Therapeutic Use. Utilization of this product apart from the labeled intended use may be a violation of local and/or Federal Law.

| TEST PARAMETERS | SPECIFICATION | RESULT |
|------------------|---|------------------------------------|
| pH | 7.2 ± 0.2 @ 20-25°C | 7.2 @ 21°C |
| Osmolality | 252 ± 20 mOsm/kg H ₂ O @ 1:5 | 255 mOsm/kg H ₂ O @ 1:5 |
| Endotoxin | ≤ 0.25 EU/mL @ 1:100 | <0.0010 EU/mL @ 1:100 |
| Mycoplasma | Tested Negative | Negative |
| Sterility | Pass | Pass |
| Cell Line | | |
| MRC-5 (Toxicity) | Pass | Pass |
| AE-1 (Toxicity) | Pass | Pass |

For additional information on this Mediatech product, please contact our Technical Services department at (800) 235-5476 or via email at MTTechServ@corning.com.

Following signatures indicate the above material has met all quality specifications and has been reviewed by a Quality representative.

Written By/Date: *[Signature]* 26 Oct 2018 Reviewed By/Date: *[Signature]* / YI 26 Oct 2018



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