

3050 Spruce Street, Saint Louis, MO 63103, USA

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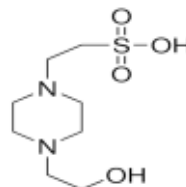
Outside USA: eurtechserv@sial.com

## Certificate of Analysis

Product Name:

HEPES – BioXtra, suitable for mouse embryo cell culture, ≥99.5% (titration)

**Product Number:** H6147  
**Batch Number:** SLCC3235  
**Brand:** SIGMA  
**CAS Number:** 7365-45-9  
**MDL Number:** MFCD00006158  
**Formula:** C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>4</sub>S  
**Formula Weight:** 238.30 g/mol  
**Quality Release Date:** 17 APR 2019  
**Recommended Retest Date:** SEP 2022



| Test  | Specification         | Result             |
|---|-----------------------|--------------------|
| Appearance (Color)                              | White                 | White              |
| Appearance (Form)                               | Crystalline Powder    | Crystalline Powder |
| Solubility (Color)                              | Colorless             | Colorless          |
| Solubility (Turbidity)                          | Clear                 | Clear              |
| 500 mg/ml, H <sub>2</sub> O                     |                       |                    |
| Water (by Karl Fischer)                         | ≤ 0.1 %               | 0.0 %              |
| Infrared Spectrum                               | Conforms to Structure | Conforms           |
| A290 UV absorbance                              | ≤ 0.05                | 0.00               |
| 33% W/W   |                       |                    |
| ICP-MS  | ≤ 5 ppm               | < 5 ppm            |
| (Total: Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn) |                       |                    |
| Titration with NaOH                             | ≥ 99.5 %              | 100.1 %            |
| Anhydrous                                       |                       |                    |
| Embryo Test                                     | ≥ 80 %                | 100 %              |
| Single cell embryo reach blastocyte stage       |                       |                    |

Carolyn Baird, Supervisor  
Quality Assurance

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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St. Louis, Missouri US

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