



Certificate of Analysis

**Minimum Essential Medium (1X), liquid
with Earle's salts
without L-glutamine**

Catalog Number: 11090
Lot Number: 2068662

Storage Temperature: 2 to 8C
Storage Instructions: Protect from light
Expiration Date: 2021-02

For in vitro diagnostic use.

Sterile filtered (0.1 um)

TEST	SPECIFICATION	RESULT	UNITS
¹ Endotoxin Testing	Tested	<0.03	EU/mL
² Osmolality	>=280 to <=330	296	mOsm/kg
³ pH	>=7.0 to <=7.4	7.3	
⁴ Sp2 Toxicity Assay	Acceptable	Acceptable	
⁵ Sterility Testing	Negative	Negative	

Read SDS

GIBCO brand, Thermo Fisher Scientific cell culture liquid products are prepared by an aseptic process for which each step has been validated to ensure that all products meet the industry standard sterility assurance level of 10^{-3} ; i.e. product that demonstrates a contamination level of no more than 1 of 1,000 units during the manufacturing process. The highest level of sterility assurance (equal to or greater than 10^{-6}) cannot be achieved without terminal sterilization which is harmful to the performance of cell culture products.

Quality Systems Department

Date: 13-Mar-2019

REFERENCES:

- 1 Current United States Pharmacopeia, <85> Bacterial Endotoxins Test.
- 2 Thermo Fisher Scientific Specifications.
- 3 Thermo Fisher Scientific Specifications.
- 4 Thermo Fisher Scientific Specifications, Ref.: GIBCO Catalog. Cell Line Used: Sp2/O-Ag14 (ATCC No. CRL-1581). Test samples were evaluated for nutritional support of target cells utilizing the murine myeloma cell line Sp2/O-Ag14 (Sp2). Comparable growth rates of Sp2 cells in samples of complete test medium were obtained relative to parallel cultures grown in reference control medium.
- 5 Current edition of USP.