

Horse Serum  
Performance, Mycoplasma, Endotoxin, EIA tested (negative) and  
Virus tested.

**Lot Number:** 2833663  
**Item Number:** 16050  
**Expiration Date:** 2027-10  
**Storage Temp:** <= -10C  
**Country of Origin:** New Zealand

For research use or further manufacturing use only. Serum and blood proteins are not for direct administration into humans or animals.

0.2 micron filtered

TEST	TEST ID	SPECIFICATION	RESULT	UNITS
<b>Electrophoretic Profile</b>	ELECTR0063	Normal	Normal	
<b>Endotoxin</b>	ENDO0116	Check and Record	<0.500	EU/mL
<b>Equine Infectious Anaemia</b>	VIRUS0356	Negative	Negative	
<b>Haemoglobin</b>	HAEMO0032	Check and Record	9.0	mg%
<b>Mycoplasma Screen</b>	MYCO0047	Negative	Negative	
<b>Osmolality</b>	OSMO0053	270 - 310	288	mOsm/kg H2O
<b>pH</b>	PH0116	6.8 - 7.6	7.3	
<b>Sp2 Toxicity Assay</b>	CYTTOX0016	Check and Record	100	%
<b>Sterility</b>	STERI0056	Negative	Negative	
<b>Total Protein</b>	PROTEI0063	5.3 - 7.9	6.3	g/dL
<b>Virus: Bovine Viral Diarrhoea Virus</b>	VIRUS0408	Negative	Negative	
<b>Virus: Cytopathogenic Agents</b>	VIRUS0413	Negative	Negative	
<b>Virus: Equine Herpes</b>	VIRUS0417	Negative	Negative	
<b>Virus: Equine Viral Arteritis</b>	VIRUS0418	Negative	Negative	
<b>Virus: Haemadsorbing Agents</b>	VIRUS0414	Negative	Negative	
<b>Virus: Rabies Virus</b>	VIRUS0411	Negative	Negative	
<b>Virus: Reovirus</b>	VIRUS0412	Negative	Negative	

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.

NOTICE: Since our sera are not pre-aged before filtration, turbidity or flocculent debris may develop upon thawing or storage. This condition does not adversely affect performance characteristic of the serum.

Notice: For lots manufactured from 21 Nov 2017, the storage temperature and intended use for this product has changed per ECR1038162 and ECR1038594. These changes will not impact product quality, stability or performance and there are no associated changes in the manufacturing, storage or transport processes. If you have questions regarding these changes, please contact Thermo Fisher Scientific Technical Support at 1-800-955-6288 in North America or techsupport@thermofisher.com globally.

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Quality Systems Department

Date: 14-Dec-2023

## References

- ELECTR0063: Protein Electrophoresis.
- ENDO0116: LAL Chromogenic, Current edition of USP.
- VIRUS0356: Gel Diffusion Test, Pearson, J.E., Coggins, L., (1979) American Association Veterinary Laboratory Diagnosticians 22nd Annual Proceedings, 449-462.
- HAEMO0032: Determined Spectrophotometrically, Fleming, A.F. and Woolf, A.J. Clin. Chem. 12, 67, 1965.
- MYCO0047: Barile, M.F. & Kern, J. (1971) P.S.E.M.B. 138, 432, Thermo Fisher Scientific Modified.
- OSMO0053: Freezing Point Depression.
- PH0116: Combined Electrode, USP/EP.
- CYTTOX0016: Thermo Fisher Scientific Specifications, Ref Thermo Fisher Scientific 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.
- STERI0056: Current edition of USP and EP.
- PROTEI0063: Biuret Method: Doumas et al.(1975). Clin. Chem. 21, 1159.
- VIRUS0408: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].
- VIRUS0413: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].
- VIRUS0417: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].
- VIRUS0418: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].
- VIRUS0414: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].
- VIRUS0411: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].
- VIRUS0412: Code of Federal Regulations, (CFR), Title 9, Part 113.53 (c) [113.46, 113.47].