



## CERTIFICATE OF ANALYSIS

Product Name: Ham's F-12 Medium  
Without L-Glutamine and Phenol Red

MADE IN THE USA

Catalog Number: HFL07

Storage: 2 to 8°C

Manufacture Date: DEC-2018

Lot Number: 12181023

Expiration Date: 31-DEC-2020

Test	Specifications	Results
Appearance	Clear, Pink to Light-Red Solution	PASS
Sterility ( <i>USP &lt;71&gt;</i> )		
Aerobes, Anaerobes, Fungi	Negative	NEGATIVE
pH ( <i>measured at 24°C</i> )	7.00 - 7.40	7.36
Osmolality	Record mM/Kg	306 mM/Kg
Endotoxin	≤ 1.0 EU/mL	< 0.1 EU/mL
<i>Endotoxin testing was performed using the LAL detection method.</i>		
Mycoplasma	Negative	NEGATIVE
<i>Mycoplasma test was performed using MycoAlert® Mycoplasma Detection Assay.</i>		
Animal Cell Culture		
Cell Growth Promotion	3 Passages	PASS
Viability	≥ 80%	> 90%
<i>Medium was supplemented with 10% FBS and 292 mg/L L-Glutamine, then tested using CHO cells grown in a monolayer in a 5% CO<sub>2</sub> atmosphere.</i>		

**This product was produced and tested in accordance with all relevant SOP's and meets or exceeds the quality standards established by Caisson Laboratories, Inc.**

*This product is intended for laboratory use only.*

Prepared by:

Reviewed by:

BSE/TSE Declaration

To the present state of our knowledge we declare that this product does not contain any BSE/TSE AGENT. This declaration is given in good faith and no warranty express or implied with respect to quality and properties is made.

Kurt Rieben  
Quality Control

14-JAN-2018

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