



CERTIFICATE OF ANALYSIS

Product Name: Medium 199
With Earle's Salts
Without L-Glutamine

MADE IN THE USA

Catalog Number: MDP04

Storage: 2 to 8°C

Manufacture Date: Aug 2016

Lot Number: 08160026

Expiration Date: 31-Aug-2020

Test	Specifications	Results
Appearance	Free-Flowing, Orange Powder	PASS
Solubility (in H ₂ O)	9.43 g/L in ≤ 30 minutes	3 minutes
Moisture Content	≤ 2%	< 1.5%
Particle Size (100 mesh)	≥ 90%	> 95%
pH (<i>measured at ~ 22°C</i>)		
Without NaHCO ₃	Record	4.58
With 2200 mg/L NaHCO ₃	Record	7.26
Osmolality		
Without NaHCO ₃	Record mM/Kg	240 mM/Kg
With 2200 mg/L NaHCO ₃	Record mM/Kg	285 mM/Kg
Endotoxin	≤ 1.0 EU/mL	< 0.25 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%	≥ 95%
	<i>Medium was supplemented with 10% FBS, 2.2 g/L NaHCO₃, and 292 mg/L L-Glutamine, adjusted to pH 7.26, then tested using CHO cells grown in a monolayer in a 5% CO₂ 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.

Kurt Rieben
Quality Control

9-20-16