



CERTIFICATE OF ANALYSIS

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

Catalog Number: MDP08

Lot Number: 01160031

Test	Specifications	Results
Appearance	Off-White to Light-Orange Powder	PASS
Solubility (in H ₂ O)	9.53 g/L in ≤ 30 minutes	5 minutes
Moisture Content	≤ 2 %	< 1 %
Particle Size	≥ 90% through 100 Mesh	100 %
pH	<i>(pH was measured at ~ 22 °C).</i>	
Without NaHCO ₃	4.40 - 5.00	4.65
With 2200 mg/L NaHCO ₃	7.20 - 7.80	7.40
Osmolality		
Without NaHCO ₃	210 - 270 mM/Kg	256 mM/Kg
With 2200 mg/L NaHCO ₃	270 - 310 mM/Kg	290 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 2.2 g/L NaHCO₃, adjusted to pH 7.40, then tested using CHO cells grown in a monolayer in a 5 % CO₂ atmosphere.</i>	

Manufacture Date: Jan 2016
Expiration Date: 31 Jan 2020

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 2-9-16