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CERTIFICATE OF ANALYSIS

Medium 199

*With Earle's Salts and L-Glutamine
Without Sodium Bicarbonate*

Catalog Number: MDP08
Lot Number: 03170012
MADE IN THE USA

Storage: 2° to 8°C
Manufacture Date: Mar-2017
Expiration Date: **31-Mar-2022**

Test	Specifications	Results
Appearance	Off-White to Light-Orange Powder	Pass
Solubility in Water	9.53 g/L in ≤ 30 minutes	3 Minutes
Moisture Content	≤ 2 %	< 1 %
Particle Size	≥ 90 % through 100 Mesh	> 90 %
pH (<i>measured at 25°C</i>)		
Without NaHCO ₃	4.4 - 5.0	4.62
With 2200 mg/L NaHCO ₃	7.2 - 7.8	7.39
Osmolality		
Without NaHCO ₃	210 - 270 mM/Kg	248 mM/Kg
With 2200 mg/L NaHCO ₃	270 - 310 mM/Kg	302 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 7.34, 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.

Prepared by:

Kurt Rieben
QC Technician

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.