



## CERTIFICATE OF ANALYSIS

Product Name: Dulbecco's Modified Eagle's Medium  
With High-Glucose, L-Glutamine, and 25mM HEPES  
Without Sodium Pyruvate, Phenol Red, and Sodium Bicarbonate  
MADE IN THE USA

Catalog Number: DMP17 Storage: 2 to 8°C  
Manufacture Date: MAR-2015

Lot Number: 03150018 Expiration Date: 31-MAR-2020

Test	Specifications	Results
Appearance	White to Yellow Powder	Pass
Solubility (in H <sub>2</sub> O)	17.67 g/L in ≤ 30 minutes	19 minutes, with warming
Moisture Content	≤ 2%	< 0.75%
Particle Size (100 mesh)	≥ 90%	> 90%
pH <i>(measured at 35 °C)</i>		
Without NaHCO <sub>3</sub>	Record	5.42
With 3700 mg/L NaHCO <sub>3</sub>	Record	6.93
Osmolality		
Without NaHCO <sub>3</sub>	Record mM/Kg	191 mM/Kg
With 3700 mg/L NaHCO <sub>3</sub>	Record mM/Kg	265 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, 110 mg/L Sodium Pyruvate, and 3700 mg/L NaHCO<sub>3</sub>, adjusted to pH 7.30, then tested using VERO 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:

Kurt Rieben  
Quality Control

29-JAN-2019

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.