



## CERTIFICATE OF ANALYSIS

Product Name: Dulbecco's Modified Eagle's Medium  
 With High Glucose and L-Glutamine  
 Without Sodium Pyruvate and Sodium Bicarbonate

MADE IN THE USA

Catalog Number: DMP15

Storage: 2 to 8°C

Manufacture Date: SEP-2014

Lot Number: 09140012

Expiration Date: 30-SEP-2019

Test	Specifications	Results
Appearance	Off-White to Orange Powder	PASS
Solubility (in H <sub>2</sub> O)	13.38 g/L in ≤ 30 minutes	7 minutes
Moisture Content	≤ 2 %	< 0.75 %
Particle Size (100 mesh)	≥ 90 %	≥ 95 %
pH <i>(measured at 21° C)</i>		
Without NaHCO <sub>3</sub>	5.6 - 7.2	6.19
With 3700 mg/L NaHCO <sub>3</sub>	7.6 - 7.9	7.65
Osmolality		
Without NaHCO <sub>3</sub>	245 - 285 mM/Kg	267 mM/Kg
With 3700 mg/L NaHCO <sub>3</sub>	Record mM/Kg	343 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 %	> 85 %
<i>Medium was supplemented with 10 % FBS, 3.7 g/L NaHCO<sub>3</sub>, and 110 mg/L Sodium Pyruvate, adjusted to pH 7.27, 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:

Kurt Rieben  
Quality Control

29-APR-2019

**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.