

Certificate of Analysis

Product Name:

Dulbecco's Modified Eagle's Medium - high glucose - With 4500 mg/L glucose and L-glutamine, without sodium bicarbonate, powder, suitable for cell culture

Product Number: **D5648**Batch Number: **SLCC3737**

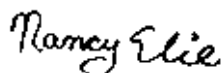
Brand: SIGMA

Storage Temperature: Store at 2 - 8 °C

Quality Release Date: 23 JUN 2020

Expiration Date: APR 2021

Test	Specification	Result
Origin	Non-Animal Source	Conforms
Appearance (Color)	Off-White to Yellow	Faint Yellow
Appearance (Form)	Powder	Powder
Shades of pink and orange may be apparent		
Solubility (Turbidity)	Clear	Clear
Solubility (Form)	Solution	Solution
@ 13.4 g/L H ₂ O		
Water (by Karl Fischer)	≤ 2.0 %	1.0 %
pH	6.0 - 6.6	6.2
pH	7.5 - 8.1	7.8
With 3.7 g/L NaHCO ₃		
Osmolality	247 - 273 mOs/kg	249 mOs/kg
Osmolality	318 - 351 mOs/kg	323 mOs/kg
With 3.7 g/L NaHCO ₃		
Total Glucose	30.2 - 36.8 %	30.9 %
Endotoxin Level	≤ 1.0 EU/ml	< 0.1 EU/ml
at 1x		
Cell Culture Test	Pass	Pass



Nancy Elie, QA Associate
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

