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## Certificate of Analysis

Product Name:

Dulbecco's Modified Eagle's Medium/Nutrient Mixture F-12 Ham - With L-glutamine and 15 mM HEPES, without sodium bicarbonate, powder, suitable for cell culture

**Product Number:** D8900

**Batch Number:** SLBL6098V

Brand: SIGMA

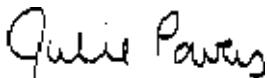
MDL Number: MFCD00217417

Storage Temperature: Store at 2 - 8 °C

Quality Release Date: 19 NOV 2015

Expiration Date: AUG 2016

Test	Specification	Result
Origin	Non-Animal Source	Conforms
Appearance (Color)	White to Off-White	Off-White
Appearance (Form)	Powder	Powder
Solubility (Turbidity)	Clear	Clear
Solubility (Form)	Solution	Solution
at 15.6 g/L in H <sub>2</sub> O		
Water (by Karl Fischer)	≤ 2.0 %	0.5 %
pH	5.5 - 6.1	5.8
pH	6.5 - 7.1	6.9
with 1.18 g/L NaHCO <sub>3</sub>		
Osmolality	265 - 292 mOs/kg	286 mOs/kg
Osmolality	284 - 314 mOs/kg	306 mOs/kg
with 1.18 g/L NaHCO <sub>3</sub>		
Endotoxin Level	≤ 1.0 EU/ml	< 0.1 EU/ml
at 1x		
Total Glucose	18.2 - 22.2 %	20.9 %
Cell Culture Test	Pass	Pass



Julie Powers, QA Specialist  
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.