

## Certificate of Analysis

Date of Testing: 2024-01-09 17:09:42  
Date of Next Testing: 2028-01-08 17:09:42  
Product Name: **Choline chloride**  
CAS Number: 67-48-1  
Specifications & Purity: for cell culture , for insect cell culture, ≥99%  
Lot #: A2405527  
SKU #: **C108897**  
**Analysis:** **307502**  
Storage Temperature: Argon charged, Desiccated

Parameter	Limit Values	Result
Water by Karl Fischer	0-0.5 (%)	0.09%
Melting point	302-310 (°C)	309.61000 °C
Purity(Titration by AgNO <sub>3</sub> )	99-100 (%)	99.98%
Appearance (C108897)	White Powder, Crystals or Chunks	White Powder, Crystals or Chunks
Solubility in H <sub>2</sub> O , 200mg/4ML	pass	Pass
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Insect cell culture test	pass	Pass



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QA & QC Manager