

## Certificate of Analysis

Date of Testing: 2024-08-30 16:32:01  
Date of Next Testing: 2028-08-29 16:32:01  
Product Name: **D(+)-Raffinose pentahydrate**  
CAS Number: 17629-30-0  
Specifications & Purity: 99%  
Lot #: H2414527  
SKU #: **R111688**  
Version: **0**  
Analysis #: **392142**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	14-16 (%)	15.54%
Melting point	78-82 (°C)	80.85000 °C
Purity(HPLC)	99-100 (%)	99.48800 %
Specific Rotation [α] <sub>20</sub> /D(c=10 in H <sub>2</sub> O)	100-110 (°)	100.00 °
Appearance (R111688)	white powder	White powder
Solubility,50mg/ml water	Clear colorless	Clear Colorless
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager