

## Certificate of Analysis

Date of Testing: 2022-01-25 14:11:41  
Date of Next Testing: 2026-01-24 14:11:41  
Product Name: **D(+)-Raffinose pentahydrate**  
CAS Number: 17629-30-0  
Specifications & Purity: 99%  
Lot #: A2219056  
SKU #: **R111688**  
**Analysis:** **059129**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	14-16 (%)	14.44 %
Melting point	78-82 (°C)	78.80000 °C
Purity(HPLC)	99-100 (%)	99.52500 %
Specific Rotation [α] <sub>20</sub> /D(c=10 in H <sub>2</sub> O)	100-110 (°)	100.01 °
Appearance (R111688)	white powder	White powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility,50mg/ml water	Clear colorless	Clear Colorless



John Su  
QA & QC Manager