

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-09-14 11:32:15
 Date of Next Testing: 2028-09-13 11:32:15
 Product Name: **D(+)-Raffinose pentahydrate**
 CAS Number: 17629-30-0
 Specifications & Purity: $\geq 99\%$
 Lot #: K2027071
 SKU #: **R111688**
 Version: **0**
 Analysis #: **411509**
 Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Water by Karl Fischer	14-16 (%)	14.05000 %
Specific Rotation $[\alpha]_{20/D}(c=10 \text{ in H}_2\text{O})$	100-110 (°)	103.30000 °
Melting point	78-82 (°C)	78.50000 °C
Purity(HPLC)	99-100 (%)	99.80000 %
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