

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

|                          |                                                                                    |
|--------------------------|------------------------------------------------------------------------------------|
| Date of Testing:         | 2023-04-15 05:57:12                                                                |
| Date of Next Testing:    | 2027-04-14 05:57:12                                                                |
| Product Name:            | <b>Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-<math>\beta</math>-D-galactopyranoside</b> |
| CAS Number:              | 24404-53-3                                                                         |
| Specifications & Purity: | $\geq 98\%$                                                                        |
| Lot #:                   | D2311712                                                                           |
| SKU #                    | <b>P160760</b>                                                                     |
| Version                  | <b>1</b>                                                                           |
| Analysis #:              | <b>190067</b>                                                                      |
| Storage Temperature:     | Store at -20°C                                                                     |

| Parameter                                                  | Limit Values                            | Result                                  |
|------------------------------------------------------------|-----------------------------------------|-----------------------------------------|
| Purity(HPLC area)                                          | 98-100 (%)                              | 99.73700 %                              |
| Specific Rotation $[\alpha]_{20/D(c=1 \text{ in CHCL}_3)}$ | 4-6 ( $^{\circ}$ )                      | 5.50400 $^{\circ}$                      |
| Appearance(P160760)                                        | White to Almost white powder to crystal | White to Almost white powder to crystal |
| NMR Spectrum 1H                                            | Conforms to Structure                   | Conforms to Structure                   |



John Su  
QA & QC Manager