

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-16 13:55:46  
 Date of Next Testing: 2027-02-15 13:55:46  
 Product Name: **2'-Deoxycytidine hydrochloride**  
 CAS Number: 3992-42-5  
 Specifications & Purity:  $\geq 99\%$   
 Lot #: B2310538  
 SKU #: **D121845**  
 Version: **1**  
 Analysis #: **174836**  
 Storage Temperature: Room temperature, Argon charged

| Parameter                                                                | Limit Values                                            | Result                                                  |
|--------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| Purity (Argentmetric Titration)                                          | 98.5-101.5 (%)                                          | 99.90000 %                                              |
| Specific Rotation $[\alpha]_{20/D(c=1 \text{ in H}_2\text{O})}$          | 55-59 (°)                                               | 56.97100 °                                              |
| EmM                                                                      | 8.8-9.2                                                 | 9.03000                                                 |
| Purity(HPLC)                                                             | 99-100 (%)                                              | 99.01100 %                                              |
| Infrared spectrum                                                        | Conforms to Structure                                   | Conforms to Structure                                   |
| LC-MS Test                                                               | Pass                                                    | Pass                                                    |
| Wave Length, 270 - 272 nm                                                | Pass                                                    | Pass                                                    |
| Appearance (D121845)                                                     | White to Almost white to light yellow powder to crystal | White to Almost white to Light Yellow powder to crystal |
| Solubility, Colorless to light yellow and clear (5% in H <sub>2</sub> O) | Pass                                                    | Pass                                                    |



John Su  
QA & QC Manager