

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-03-11 14:57:17

Date of Next Testing: 2027-03-11 14:57:17

Product Name: **Doxycycline hydrochloride**

CAS Number: 10592-13-9

Specifications & Purity: Moligand™, ≥95%

Lot #: D2129046

SKU #: **D302150**

Version: **1**

Analysis #: **328744**

Storage Temperature: Store at 2-8°C, Argon charged, Desiccated

| Parameter                                                                | Limit Values          | Result                |
|--------------------------------------------------------------------------|-----------------------|-----------------------|
| solvent content by GC(ethanol)                                           | 4.3-6 (%)             | 4.60000 %             |
| Purity(Titration by AgNO <sub>3</sub> )                                  | 94-102.5 (%)          | 95.61000 %            |
| Purity(HPLC)                                                             | 95-100 (%)            | 96.02700 %            |
| Specific Rotation [α] <sub>20/D</sub> (c=1, in 1ml 1M HCL+99ml Methanol) | -120--105 (°)         | -105.02000 °          |
| Appearance (D302150Form)                                                 | Powder                | Powder                |
| Appearance (D302150Color)                                                | Light Yellow          | Light Yellow          |
| Proton NMR spectrum                                                      | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager