

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-05 17:07:14

Date of Next Testing: 2027-05-04 17:07:14

Product Name: **Diethanolamine Hydrochloride**

CAS Number: 14426-21-2

Specifications & Purity: >95.0%(T)

Lot #: D23261350

SKU #: **D155708**

Analysis: **212910**

| Parameter                               | Limit Values                               | Result                                     |
|-----------------------------------------|--------------------------------------------|--------------------------------------------|
| Purity(Titration by AgNO <sub>3</sub> ) | 94.5-105.5 (%)                             | 100.81 %                                   |
| Refractive index n <sub>20</sub> /D     | 1.512-1.519                                | 1.51                                       |
| Appearance (D155708)                    | Colorless to Yellow to Brown-Yellow Liquid | Colorless to Yellow to Brown-Yellow Liquid |
| Proton NMR spectrum                     | Conforms to Structure                      | Conforms to Structure                      |

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager