

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-14 15:32:04

Date of Next Testing: 2024-12-13 15:32:04

Product Name: **Orotic acid**

CAS Number: 65-86-1

Specifications & Purity: >98.0%

Lot #: C2110011

SKU #: **O137322****Analysis: 168196**

| Parameter | Limit Values | Result |
|-----------------------------------------------------------------------------|---------------------------------------|---------------------------------------|
| Purity (Titration by NaOH) | 98-102 (%) | 98.15 % |
| Purity(HPLC) | 98-100 (%) | 98.08900 % |
| Water by Karl Fischer | 0-3 (%) | 1.30 % |
| Appearance (O137322) | White to Off-White Powder or Crystals | White to Off-White Powder or Crystals |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |
| Solubility in 1 M NaOH , Colorless to Faint Yellow, Clear to Hazy, 50 mg/ml | pass | Pass |

John Su
QA & QC Manager