

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-06-28 18:22:28

Date of Next Testing: 2027-06-27 18:22:28

Product Name: **1-Ethyl-3-methylimidazolium tetrafluoroborate (EMIMBF<sub>4</sub>)**

CAS Number: 143314-16-3

Specifications & Purity: ≥98%

Lot #: F2327356

SKU #: **E120493**

Version: **2**

Analysis #: **241488**

Storage Temperature: Room temperature, Argon charged

| Parameter                           | Limit Values               | Result                     |
|-------------------------------------|----------------------------|----------------------------|
| Density (20°C)                      | 1.28-1.296                 | 1.29200                    |
| Water by Karl Fischer               | 0-0.5 (%)                  | 0.12110 %                  |
| Refractive index n <sub>20</sub> /D | 1.405-1.422                | 1.40880                    |
| Purity(HPLC area)                   | 98-100 (%)                 | 99.43300 %                 |
| Appearance (E120493)                | Colorless to Yellow Liquid | Colorless to Yellow Liquid |
| Proton NMR spectrum                 | Conforms to Structure      | Conforms to Structure      |



John Su  
QA & QC Manager