

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2025-07-17 09:56:14

Date of Next Testing: 2029-07-16 09:56:14

Product Name: **Nafion™ perfluorinated resin solution**

CAS Number: 31175-20-9(Water)

Specifications & Purity: Polymer Content:5.0-5.4%,Water Content:42-48%,VOC Content:47-53%,Total Acid Capacity:0.95-1.03meq/g

Lot #: G2511065

SKU #: **P400491**

Version: **1**

**Analysis #:** **544862**

Storage Temperature: Store at 2-8°C

| Parameter                         | Limit Values          | Result                |
|-----------------------------------|-----------------------|-----------------------|
| Water by Karl Fischer             | 42-48 (%)             | 42.70%                |
| Assay(Perfluorosulfonic Acid/TFE) | 5-5.4 (%)             | 5.10000 %             |
| 1-Propanol                        | 45-51 (%)             | 50.60000 %            |
| (meq/g) H+Available Acid Capacity | >0.92                 | 0.97000               |
| (meq/g) H+Total Acid Capacity     | 0.95-1.03             | 0.98000               |
| Viscosity(25°C,CP)                | 10-40                 | 16.00000              |
| Appearance(P400491)               | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum                 | Conforms to Structure | Conforms to Structure |



John Su  
QA & QC Manager