

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-28 15:21:43

Date of Next Testing: 2027-07-27 15:21:43

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 #: G2327046

SKU #: **P400491**

Version: **1**

Analysis #: **079567**

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