

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-17 15:39:28  
Date of Next Testing: 2027-11-16 15:39:28  
Product Name: **Tetrabutylphosphonium hydroxide solution**  
CAS Number: 14518-69-5  
Specifications & Purity: 40 wt.% in H<sub>2</sub>O  
Lot #: K2310113  
SKU #: **T121851**  
Analysis: **290628**

| Parameter                   | Limit Values                     | Result                           |
|-----------------------------|----------------------------------|----------------------------------|
| Purity(NonaqueousTitration) | 40-44 (%)                        | 41.00 %                          |
| Appearance (T121851)        | Colorless to light yellow liquid | Colorless to light yellow liquid |
| Proton NMR spectrum         | Conforms to Structure            | Conforms to Structure            |



John Su  
QA & QC Manager