

## Certificate of Analysis

Date of Testing: 2023-02-02 15:41:33  
Date of Next Testing: 2025-02-01 15:41:33  
Product Name: **Tetrabutylammonium hydroxide solution**  
CAS Number: 2052-49-5  
Specifications & Purity: 10% in H<sub>2</sub>O  
Lot #: A2330951  
SKU #: **T105045**  
**Analysis:** **166132**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity(Titration by HCl)	9.5-10.5 (%)	10.35 %
Appearance (T105045)	Colorless liquid	Colorless liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager