

## Certificate of Analysis

Date of Testing: 2023-04-11 22:47:05  
Date of Next Testing: 2025-04-10 22:47:05  
Product Name: **Tetrabutylammonium hydroxide solution**  
CAS Number: 2052-49-5  
Specifications & Purity: 40 wt. % in H<sub>2</sub>O  
Lot #: D2303010  
SKU #: **T359018**  
**Analysis: 193491**  
Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Concentration(Titration by 1M HCL)	38-42 (%)	41.89%
Appearance(T359018)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to structure	Conforms to Structure



John Su  
QA & QC Manager