

## Certificate of Analysis

Date of Testing: 2022-10-12 12:00:14  
Date of Next Testing: 2026-10-11 12:00:14  
Product Name: **Tetrabutylammonium hydroxide**  
CAS Number: 2052-49-5(water)  
Specifications & Purity: ~50% in H<sub>2</sub>O  
Lot #: I2222327  
SKU #: **T490052**  
Version: **1**  
Analysis #: **142813**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
Concentration(Titration by 1M HCL)	48-52 (%)	51.89%
Appearance(T490052)	Colorless to light yellow liquid	Colorless to light yellow liquid
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager