

## Certificate of Analysis

Date of Testing: 2023-08-25 11:36:57  
Date of Next Testing: 2025-08-24 11:36:57  
Product Name: **Tetrabutylammonium hydroxide**  
CAS Number: 2052-49-5  
Specifications & Purity: ~40% in H<sub>2</sub>O, for ion chromatography  
Lot #: H2323533  
SKU #: **T105047**  
**Analysis:** **263099**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-100 (meq(mg)/kg)	0.00 meq/kg
Sodium(Na)	0-100 (meq(mg)/kg)	18.17 meq/kg
(Br)Bromide	0-100 (meq(mg)/kg)	4.50 meq/kg
Concentration(Titration by 1M HCL)	38-42 (%)	40.18 %
Potassium(K)	0-100 (meq(mg)/kg)	54.89 meq/kg
Appearance (T105047)	Colorless to light yellow liquid	Colorless to light yellow liquid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager