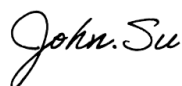


Shanghai Aladdin Biochemical Technology Co., LTD  
809 Chuhua Branch Road, Fengxian District, Shanghai 201400, China

## Certificate of Analysis

Date of Testing: 2023-08-14 09:32:42  
Date of Next Testing: 2025-08-03 09:32:42  
Product Name:  **$\alpha$ -Bromoisobutryl bromide**  
CAS Number: 20769-85-1  
Specifications & Purity: 98%  
Lot #: K2125862  
SKU #: **B106971**  
Analysis: **260816**

| Parameter                               | Limit Values                   | Result                         |
|-----------------------------------------|--------------------------------|--------------------------------|
| Purity(Titration by AgNO <sub>3</sub> ) | 97.5-102.5 (%)                 | 100.02000 %                    |
| Purity(GC)                              | 98-100 (%)                     | 99.47100 %                     |
| Refractive index n <sub>20</sub> /D     | 1.507-1.512                    | 1.50880                        |
| Density (20°C)                          | 1.861-1.871                    | 1.86300                        |
| Appearance (B106971)                    | Colorless to pale brown liquid | Colorless to pale brown liquid |
| Infrared spectrum                       | Conforms to Structure          | Conforms to Structure          |



John Su  
QA & QC Manager