

## Certificate of Analysis

Date of Testing: 2024-12-26 17:57:34

Date of Next Testing: 2028-12-25 17:57:34

Product Name: **Choline hydroxide solution**

CAS Number: 123-41-1

Specifications & Purity: 44 wt. % in H<sub>2</sub>O

Lot #: L2419639

SKU #: **C166651**

Version: **0**

Analysis #: **448258**

Storage Temperature: Store at 2-8°C, Protected from light, Argon charged

| Parameter                               | Limit Values            | Result                  |
|-----------------------------------------|-------------------------|-------------------------|
| Purity(Titration by HClO <sub>4</sub> ) | 38-50 (%)               | 45.17 %                 |
| Appearance (C166651)                    | Colorless to tan liquid | Colorless to tan liquid |
| Proton NMR spectrum                     | Conforms to Structure   | Conforms to Structure   |



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