



## CERTIFICATE OF ANALYSIS

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### 1. Identification

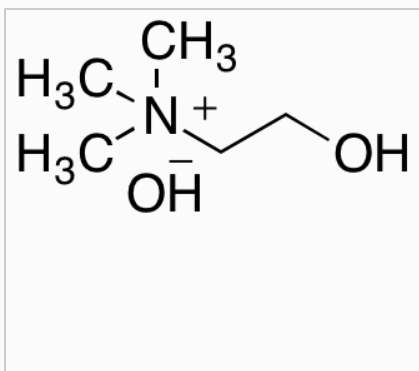
**Catalogue Number:** C432595

**CAS Number:** 123-41-1

**Product:** Choline Hydroxide in Methanol Solution (~45% w/w, stabilized with 0.5% Paraformaldehyde)

**Synonym:** 2-Hydroxy-N,N,N-trimethyl-ethanaminium Hydroxide (1:1); (2-Hydroxyethyl)trimethylammonium Hydroxide; (β-Hydroxyethyl)trimethylammonium Hydroxide; Bursine; Cholinium Hydroxide; Fagine; Gossypine; Luridine; N,N,N-Trimethyl-N-(2-hydroxyethyl)ammonium Hydroxide; N,N,N-Trimethyl-N-hydroxyethylammonium Hydroxide; Sincaline; Sinkalin; Sinkaline; Trimethyl(2-hydroxyethyl)ammonium Hydroxide; Trimethyl(hydroxyethyl)ammonium Hydroxide; Vidine;

**Structure:**



**Molecular Formula:**

C<sub>5</sub>H<sub>15</sub>NO<sub>2</sub>

**Molecular weight:**

121.18

**Source of Product:**

N/A

**Solubility:**

Methanol (Slightly), Water (Sparingly)

**Lot Number:** 1-ALI-24-1

**Purity:** 98%

**Shipping Condition:** This Product Is Stable To Be Shipped With Blue Ice

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Colourless to Brown Solution	Light Brown to Brown Solution
NMR	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.13% (ELSD)
MS	Conforms to Structure	Conforms
C NMR	Conforms to Structure	Conforms

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
swathi reddy	Toni Rantanen	Chanell Chu	6/27/2023	6/25/2027
				