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## **Certificate of Analysis**

Product Name: L-CYSTEINE ETHYL ESTER HYDROCHLORIDE

98 %

Product Number: C121908
Batch Number: BCBX0976
Brand: Aldrich
CAS Number: 868-59-7

Formula: HSCH<sub>2</sub>CH(NH<sub>2</sub>)COOC<sub>2</sub>H<sub>5</sub> \* HCI

Formula Weight: 185.67

Quality Release Date: 08 JUN 2018

TEST	SPECIFICATION	RESULT
APPEARANCE (COLOR)	WHITE	WHITE
APPEARANCE (FORM)	POWDER, CRYSTALLINE POWDER	POWDER
	AND/OR CHUNKS	
PURITY (TLC AREA %)	≥98 %	100.0 %
ENANTIOMERIC EXCESS	≥98.5 % (GC)	99.9 % (GC)
SPECIFIC ROTATION (20/D)	-12.5 TO -8.5 DEGREES	-12.4 DEGREES
CONCENTRATION	C=1 IN H2O	C=1 IN H2O
SOLUBILITY (COLOR)	COLORLESS	COLORLESS
SOLUBILITY (TURBIDITY)	CLEAR TO VERY FAINTLY TURBID (<	CLEAR (<3.5 NTU)

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12.5 NTU)

 SOLUBILITY (METHOD)
 5 % IN H2O
 5 % IN H2O

 CARBON CONTENT
 31.5 - 33.2
 31.8 %

 NITROGEN CONTENT
 7.2 - 7.8
 7.5 %

PROTON NMR SPECTRUM CONFORMS TO STRUCTURE CONFORMS

Dr. Reinhold Schwenninger

Dr. R. Slury

Quality Assurance Buchs, Switzerland

Sigma-Aldrich warrants that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.