

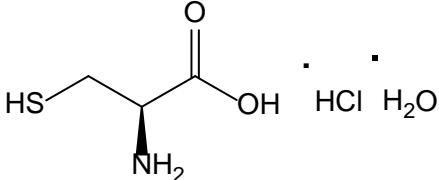
# Certificate

## L-CYSTEINE HYDROCHLORIDE

(L-2-Amino-3-mercaptopropionic acid monohydrochloride monohydrate)

USP Catalog No.: 1161509

USP Lot No.: R043K0

	CAS No.: 7048-04-6
	Molecular Formula: $C_3H_7NO_2S \cdot HCl \cdot H_2O$
	Molecular Weight: 175.63

**LABEL TEXT**

For use with specified USP compendial tests.  
Not for use as a drug. See SDS prior to use at  
[www.usp.org/sds](http://www.usp.org/sds).



**REFERENCE STANDARD**

**L-CYSTEINE HYDROCHLORIDE 600 mg**

This is the monohydrate form. For quantitative applications, determine LOD at room temperature for 24 hours in a vacuum desiccator using a desiccant and maintaining a pressure of NMT 5 mm of mercury. Use undried material and correct weight for LOD to obtain

Use a value of 1.000 mg of L-cysteine hydrochloride per mg of material on the dried basis. Store in a dry place. Keep container tightly closed.

USP, 12601 Twinbrook Pkwy, Rockville, MD, +1-301-881-0666

Cat. No. 1161509

Material mfd in Japan

LOT: R043K0



*Jeri L. Ioth*

*Quality Assurance*

**Calculation Value**

If a value is not provided on the label or accompanying documentation and the Reference Standard has a quantitative USP compendial application, a value of 100.0% is used. The purity value is not applicable for qualitative uses. Please refer to the specific Reference Standard label for further information.

**Expiration**

Current lots are identified in the current USP Catalog. In some cases, the previous lot may still be considered valid for use. If so, it is identified in the column marked "Previous Lot/Valid Use Date."

It is the responsibility of each user to determine that this lot is current or valid when used. For the most up-to-date information, please refer to the USP Store at [www.usp.org](http://www.usp.org).

**Instructions for Use**

Follow the instructions on the label of the USP Reference Standard and in the appropriate USP documentary standard(s).

**Non-Monograph Use**

The suitability of this Reference Standard for use in non-compendial applications is solely the responsibility of the user.

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