

# L-CYSTINE DIHYDROCHLORIDE, SYNTHETIC

## BIOBURDEN AND ENDOTOXIN TESTED, GMP

CAS #: 30925-07-6

Formula:  $C_6H_{12}N_2O_4S_2 \cdot 2HCl$ 

F.W.: 313.22 g/mol

LCYS-6250

BIO QUALIFIED GRADE

| ANALYSIS                            |      | SPECIFICATIONS                              |
|-------------------------------------|------|---------------------------------------------|
| Appearance and Color                |      | White to Slightly Yellow Crystalline Powder |
| Assay, Dried Basis                  |      | 98.0 – 102.0%                               |
| Microbial Content                   | TAMC | < 50 CFU/g                                  |
|                                     | TYMC | < 50 CFU/g                                  |
| Chloride                            |      | 22.2 – 23.5%                                |
| Endotoxin                           |      | < 0.02 EU/mg                                |
| Heavy Metals (Pb)                   |      | < 10 ppm                                    |
| Identification, IR                  |      | Conforms to Reference Standard              |
| Loss on Drying                      |      | < = 0.5%                                    |
| pH (0.1%)                           |      | Report                                      |
| Residue on Ignition                 |      | < = 0.1%                                    |
| Specific Rotation, Free Basis, 20°C |      | -225.0° to -215.0°                          |
| Solubility                          |      | Passes Test                                 |

### General Product Overview

L-Cystine Dihydrochloride is a dimer, synthesized under GMP conditions and is suitable for cell culture media used in the commercial manufacturing of therapeutic recombinant proteins, and monoclonal antibodies.

[Click here to view SDS, CoAs and other supporting regulatory documents on our website.](#)

### Industry Application

Suitable for use in biological and biotech chemical process applications from R&D through scale cGMP production.

### Key Product Features

- Appears as a white to slightly yellow crystalline powder
- GMP Manufactured in accordance with the QMS
- Manufactured in an enzyme free, hormone free and animal free environment
- Contains no known major food allergens (as defined by FDA and WHO)
- The final product and its raw materials are not derived from nor come into contact with animal parts, animal products, and/or animal byproducts or derivatives.
- Is not subject to genetic modification
- Synonyms: (2R)-2-amino-3-[[[(2R)-2-amino-2-carboxyethyl] disulfanyl]propanoic acid; diHCl

### Storage and Shipping Conditions

Refer to SDS.

### Standard Shelf-Life Policy

Unless otherwise noted on the Shelf-Life Statement and CoA, this product has a 2-year retest date supported by a 3-year ICH Q1 Stability Study (if one is completed).

### Package Sizes

100g, 500g, 1kg, 5kg, 10kg, 25kg, 50kg

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