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Product Specification

Product Name:

L-Cystine – from non-animal source, meets EP testing specifications, suitable for cell culture, 98.5–101.0%

Product Number:

C7602

CAS Number:

56-89-3

MDL:

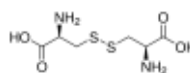
MFCD00064228

Formula:

C₆H₁₂N₂O₄S₂

Formula Weight:

240.30 g/mol



TEST

Specification

| | |
|-------------------------------|-----------------------|
| Appearance (Color) | White to Off White |
| Appearance (Form) | Crystalline Powder |
| Solubility (Color) | Colorless |
| Solubility (Turbidity) | Clear |
| 1 g to 10 mL of 2M HCl | |
| Infrared spectrum | Conforms to Structure |
| Endotoxin Level | ≤ 1 EU/mg |
| Cell Culture Test | Pass |
| Origin | Conforms |
| Must be non-animal source | |
| Specific Rotation | -224 - -218 ° |
| C= 2 in 1M HCl at 20 deg C | |
| Iron (Fe) | < = 10 ppm |
| Loss on Drying | ≤ 0.5 % |
| Residue on ignition (Ash) | ≤ 0.10 % |
| Ninhydrin-Positive Substances | Conforms |
| Assay (Dry Basis) | 98.5 - 101.0 % |
| Chloride | < = 0.020% |
| Sulfate | < = 0.030% |
| Ammonium | < = 0.020% |
| Residual Solvents | Meets Requirements |
| Recommended Retest Period | ----- |
| 4 years | |

Specification: PRD.4.ZQ5.10000042761

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.