

## SPECIFICATION

CultureSureR L-Cystine Dihydrochloride, Animal-derived-free  
for Cell Culture

REQUIREMENT	SPECIFICATION
Description	White crystals or crystalline powder
Identification (1)	to pass test
Identification (2)	to pass test
Optical rotation [ $\alpha$ ]D20 (calculated on the dried basis)	-165~-177°
Purity	-
(1) Clarity and color of solution	to pass test
(2) Sulfates	max.0.028%
(3) Ammonium	max.0.02%
(4) Heavy metals	max.10ppm
(5) Iron	max.30ppm
(6) Arsenic	max.1ppm
(7) Foreign amino acids	to pass test
Loss on drying	max.1.0%
Residue on ignition	max.0.05%
Assay (calculated on the dried basis)	min.98.5%
Bacterial endotoxins	less than 10.0EU/g
Mycoplasma test	to pass test
Viable count test	max.100CFU/g