

## SPECIFICATION

CultureSureR L-Valine, Animal-derived-free  
for Cell Culture

REQUIREMENT	SPECIFICATION
Description	White crystals or crystalline powder
Identification	to pass test
Optical rotation [ $\alpha$ ]D <sub>20</sub> (after drying)	+26.5~+29.0°
pH	5.5~6.5
Purity	-
(1) Clarity and color of solution	to pass test
(2) Chloride	max.0.021%
(3) Sulfates	max.0.028%
(4) Ammonium	max.0.02%
(5) Heavy metals	max.20ppm
(6) Arsenic	max.2ppm
(7) Related substances	to pass test
Loss on drying	max.0.30%
Residue on ignition	max.0.1%
Assay (after drying)	min.98.5%
Bacterial endotoxins	less than 10.0EU/g
Mycoplasma test	to pass test
Viable count test	max.50CFU/g