

## SPECIFICATION

CultureSureR L-Phenylalanine, 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) | -33.0~-35.5°                         |
| pH  | 5.3~6.3                              |
| 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 25.0EU/g                   |
| Mycoplasma test   | to pass test                         |
| Viable count test   | max.50CFU/g                          |