

## SPECIFICATION

CultureSureR L-Lysine Hydrochloride, Animal-derived-free  
for Cell Culture

| REQUIREMENT                                     | SPECIFICATION      |
|---|--------------------|
| Description                                     | White powder       |
| Identification (1)                              | to pass test       |
| Identification (2)                              | to pass test       |
| Optical rotation [ $\alpha$ ]D20 (after drying) | +19.0~+21.5°       |
| pH  | 5.0~6.0            |
| 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) Arsenic                                     | max.2ppm           |
| (6) Related substances                          | to pass test       |
| Loss on drying                                  | max.1.0%           |
| 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        |