

## SPECIFICATION

CultureSureR L-Asparagine Monohydrate, Animal-derived-free  
for Cell Culture

| REQUIREMENT   | SPECIFICATION                        |
|---|--------------------------------------|
| Description   | White crystals or crystalline powder |
| Identification  | to pass test                         |
| Optical rotation [ $\alpha$ ] <sub>D20</sub> (after drying) | +34.2~+36.5°                         |
| Purity  | -                                    |
| (1) Clarity and color of solution                           | to pass test                         |
| (2) Chloride  | max.0.021%                           |
| (3) Sulfates  | max.0.028%                           |
| (4) Heavy metals  | max.10ppm                            |
| (5) Iron  | max.10ppm                            |
| (6) Arsenic   | max.1ppm                             |
| (7) Foreign amino acids                                     | to pass test                         |
| Loss on drying  | 11.5~12.5%                           |
| Residue on ignition   | max.0.10%                            |
| Assay (after drying)  | min.98.5%                            |
| Bacterial endotoxins  | less than 25.0EU/g                   |
| Mycoplasma test   | to pass test                         |
| Viable count test   | max.50CFU/g                          |