

# SPECIFICATION

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Product Code 10325-0310  
Commodity L-Asparagine monohydrate  
Grade Guaranteed Reagent  
Q'ty 25g

| [Test Item]                                        | [Standard]        | CASNo.5794-13-8 |
|----------------------------------------------------|-------------------|-----------------|
| ASSAY( $C_4H_8N_2O_3 \cdot H_2O$ )                 | min. 99.0 %(m/m)  |                 |
| Solubility in water                                | To pass test      |                 |
| Specific rotation $[\alpha]_D^{25}$ (130 °C Dried) | +33.0~+36.5°      |                 |
| Drying loss (130°C)                                | 11.5~12.5 %(m/m)  |                 |
| Ignition residue (as sulfates)                     | max. 0.05 %(m/m)  |                 |
| Chloride (Cl)                                      | max. 0.01 %(m/m)  |                 |
| Sulfate ( $SO_4$ )                                 | max. 0.02 %(m/m)  |                 |
| Lead (Pb)                                          | max. 0.001 %(m/m) |                 |
| Arsenic (As)                                       | max. 1 ppm(m/m)   |                 |
| Iron (Fe)                                          | max. 0.001 %(m/m) |                 |
| Ammonium ( $NH_4$ )                                | max. 0.02 %(m/m)  |                 |
| Other amino acid                                   | To pass test      |                 |