



江蘇華宇化工有限公司  
**JIANGSU HUAYU CHEMICAL CO., LTD.**

Room 7B Fusheng Mansion, No.1 Fuhougang, Nanjing, P.R. of China  
Tel: +86-25-83241153 FAX: +86-25-83241173 Mail: sales@jshuayuchem.com

**Specification of Alpha Arbutin**

| Items                                 | Specification                                                                               |
|---------------------------------------|---------------------------------------------------------------------------------------------|
| Appearance:                           | White crystalline powder.                                                                   |
| Color and clarity of Solution:        | Transparency and colorless.                                                                 |
| pH value(in 1% solution):             | 5.0~7.0                                                                                     |
| Specific rotation $[\alpha]_D^{20}$ : | $+180 \pm 5^\circ$                                                                          |
| Melting point:                        | 202 ~ 210°C                                                                                 |
| Infrared characteristic peak value:   | $1515\text{cm}^{-1}$ $1220\text{cm}^{-1}$ $1050\text{cm}^{-1} \pm (5 \sim 8)\text{cm}^{-1}$ |
| Loss on drying:                       | Not more than 0.5%                                                                          |
| Residue on Ignition:                  | Not more than 0.5%                                                                          |
| Heavy metals (Pb):                    | Not more than 10ppm                                                                         |
| Arsenic:                              | Not more than 2ppm                                                                          |
| Hydroquinone:                         | Not more than 10ppm                                                                         |
| Assay (by HPLC):                      | Not less than 99.5%                                                                         |
| Aerobic bacterial count:              | Not more than 300/g                                                                         |
| Yeast count:                          | Not more than 100/g                                                                         |
| Fecal Coliforms:                      | Negative                                                                                    |
| Pseudomonas Aeruginosa                | Negative                                                                                    |
| Staphylococcus Aureus:                | Negative                                                                                    |