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Specification of Beta Arbutin

Items	Specification
Appearance:	White to light yellowish powder and slightly characteristic smell .
Identification: A. Infrared characteristic peak value for 1ml (1→ 1000 solution) B. UV spectrum for 1ml (1→ 1000 Arbutin solution according to Absorbance measurement to) C. While chilling it with water, 1ml (1→ 1000 solution)	3384cm-1, 3290cm-1 , 1514cm-1, 1222cm-1, 1080cm-1 At wavelength 283±2nm shows absorbance peak. Arbutin adds to 2ml Anthrone solution shows bluegreen color.
Melting point:	198 °C ~ 201 °C
Specific rotation $[\alpha]_D^{20}$ ((3.0g water, 100ml, 100mm)	-63.5 ~ -65.5 °
Heavy metals :	Not more than 20ppm
Arsenic:	Not more than 2ppm
Loss on drying (1.0g):	Not more than 0.5%
Color and clarity of Solution:	Clear, colorless without floaters.
pH value(in 1% solution):	5.0 ~ 7.0
Residue on Ignition:	Not more than 0.5%
Hydroquinone:	Not more than 1ppm
Assay (by HPLC):	Not less than 99.5%
Total of bacterium:	Not more than 100CFU/g