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Determination of Alpha Arbutin Content

【Content Determination HPLC】 This product is, α-arbutin calculated, containing $C_{12}H_{16}O_7$ not less than 99.0%. Based on method of high performance liquid chromatography (Chinese Pharmacopoeia 2010 edition two appendix) determination;
The α-arbutin content was calculated by area normalization method.

Chromatographic conditions and applicability of the system experiments:
Octadecyl silane bonded silica as a filler, 5% methanol as the mobile phase. The flow rate was 1.0 mL / min, the detection wavelength was 280 nm, and the column temperature was 25 ℃. Theoretical plate number according to α-arbutin calculated not less than 5000.

Mobile phase preparation: Take methanol 50ml, diluted with purified water to 1000mL, 0.45um filter, ultrasonic degassing 15min as the mobile phase.

Test process: Precisely weigh amount of this product 0.05g, set to 50ml volumetric flask, diluted with water to the mark, as the test solution. Precisely weigh amount of the test solution 10μL sample injection, record the chromatogram, according to the area normalized method calculate α-arbutin content.

Calculation formula:
α-Arbutin content calculation formula:
α-arbutin content = α-arbutin peak area / total peak area × 100%