

# ASES CHEMICAL WORKS

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## CERTIFICATE OF ANALYSIS

1. Name of the Product	Alpha-Arbutin
2. INCI Name	Alpha-Arbutin
3. Molecular Formula	C <sub>12</sub> H <sub>16</sub> O <sub>7</sub>
4. Molecular Weight	272.25124
5. CAS Number	84380-01-8
6. Batch Number & Mfg. Date	As mentioned on Label
7. Date Of Exp	3 Years from MFD
8. Date of Analysis	

Analytical Tests	Specification	Results
Appearance	White to off-white powder	corresponds
Arbutin Content (HPLC RP18; UV 280nm)	>=97%	98.00%
Loss on Drying (EP 2.2.32, Evaporation, gravimetric)	<=2%	0.00%
Identity by FT-IR (EP 2.2.24, Michaelson prisme)	Corresponds with reference spectrum	Corresponds
Optical Rotation [α] (EP 2.2.7)	+174 to +186°	176°
Heavy Metals (EP 2.4.8)	< 20ppm	corresponds
Arsenic (EP 2.2.23)	< 2ppm	corresponds
Total aerobic mesophilic plate count (EP 2.6.12)	< 100 CFU/g	corresponds
Specific microorganisms (Colipa)	Not detectable in 1g	corresponds

Note:-

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method.

Results may vary under other test methods or conditions.