

CERTIFICATE OF ANALYSIS

Product Name:	β -Arbutin	Manufacture Date:	Jan.20.2020
CAS No.:	497-76-7	Test Date:	Jan.21.2020
Chemical Formula:	C ₆ H ₁₂ O ₇	Report Date:	Jan.24.2020
Quantity:	150KG	Batch No:	DNXGG200105

Analysis Items	Specifications	Results	Methods
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Active Ingredients Tests

β -Arbutin(HPLC)	≥99.50%	99.51%	Ch.P.2015 IV 0512
Hydroquinone	≤10.0ppm	≤1.0ppm	Ch.P.2015 IV 0512

Physical Tests

Appearance	White crystals powder	Complies	Visual
Odor	Characteristic	Complies	Organoleptic
Taste	Characteristic	Complies	Organoleptic
pH value (1% solution)	5.0-7.0	6.3	Ch.P.2015 IV 0631
Melting Point	198.5~201.5 °C	201.11 °C	Ch.P. 2015 IV 0612
Specific Optical Rotation	[α] _{D20} =-62° -68.0°	-64.8°	Ch.P.2015 IV 0621
Loss on drying	≤0.5%	0.23%	Ch.P. 2015 IV 0831
Residue on Ignition	≤0.5%	0.18%	Ch.P.2015 IV 0841
Acid-insoluble ash	≤0.5%	0.07%	Ch.P.2015 IV 0841

Chemical Tests

Heavy Metals	≤10.0ppm	Complies	USP37<231>
As	≤2.0ppm	0.03ppm	USP37<211>
Pb	≤1.0ppm	0.05ppm	USP37<251>
Hg	≤0.1ppm	0.01ppm	USP37<261>

Microbiological Tests

Total Bacteria Count	≤1000cfu/g	50cfu/g	USP37<2021>
Yeast and Mold	≤100cfu/g	≤10cfu/g	USP37<2021>
Coli Group	≤3.0MPN/g	≤3.0MPN/g	USP37<2022>
E.Coli	Negative in 1g	Complies	USP37<2021>

Salmonella

Negative in 10g

Complies

USP37<2021>

* **Statements** : Non-Irradiated, GMO free, HALAL Certificated.

* **Conclusion**: Conform to above specification

* **Packaging**: 25kg per fiber drum.

* **Storage**: Store in origin packaging, preserve in hermetically sealed light & oxygen-resistant containers.

* **Shelf Life**: 2 years when properly stored.

Analyzed by: Li Meng

Approved by: Yang Hongmei

