

# OCTAGON CHEMICALS LIMITED

## CERTIFICATE OF ANALYSIS

Product name	Alpha-Arbutin (Cas 84380-01-8)		
Batch No.	190903	Mfg. date	2019.09.26
Rep. Date	2019.09.29	Exp. date	2021.09.25
Packaging	25kg/carton	Test according to	Enterprise
Test Items	Standards		Results
Characters	White to off-white powder		White powder
pH Value(1% aqueous solution)	5.0-7.0		6.18
Melting point	202 °C- 210°C		203.0°C-203.6°C
Specific optical rotation [α] <sub>D</sub> <sup>20</sup>	+175° ~ +185°		178.25°
Loss on drying	NMT1.0%		0.15%
State of solution (Transmittance)	NLT95.0%		99.1%
Hydroquinone(HPLC)	NMT10ppm		ND
Arsenic(as As)	NMT2ppm		<2ppm
Heavy metals	NMT10ppm		<10ppm
Residue on ignition	NMT0.5%		0.05%
Assay(HPLC)	NLT99.5%		99.99%
Total plate counts	NMT1000 cfu/g		158
Total yeast and mould counts	NMT100 cfu/g		<100 cfu/g
E.Coli	Negative		ND
Staphylococcus aureus	Negative		ND
Pseudomonas aeruginosa	Negative		ND
Conclusion	It meets the requirements of Enterprise Standards		
Storage	Store in a well-closed container at ambient temperature		
Prepared by: LI	Reviewed by: WEI	Released by:Zhang	