

COSROMA®

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CERTIFICATE OF ANALYSIS

Trade Name:	Cosroma® AFA		Batch No.:	1J6U006029
INCI Name:	Alpha-Arbutin		Manu. Date:	18/06/2019
Testing Standards	In-house Standards		Retest Date:	17/06/2021

Test Items	Specifications	Results
Appearance	White or off-white powder	White powder
Assay	≧ 99.5%	99.99%
Residue on ignition	≧ 0.5%	0.07%
Loss on drying	≧ 0.5%	0.19%
Infrared characteristic peak	Conform	Conform
Solubility	Soluble in water, alcohol	Soluble in water, alcohol
Transparency in water	Transparent colorless no suspended	Conform
Melting point	202-210 (±0.5) °C	204.9 -205.3 °C
Specific optical rotation	$[\alpha]_D^{20} = +174.0^\circ \sim +186.0^\circ$	179.38°
pH (1% water solution)	5.0 - 7.0	6.44
Heavy metal	≧ 10 ppm	< 10 ppm
Arsenic	≧ 2 ppm	< 2 ppm
Hydroquinone	≧ 10 ppm	< 10 ppm
Total plate count	≧ 300 CFU/g	< 20 CFU/g
Yeast and mold	≧ 100 CFU/g	Negative
Escherichia coli	Negative	Negative
Staphylococcus aureus	Negative	Negative
Salmonella	Negative	Negative
Conclusion:	Qualified	

Analyst: 侯健之

Auditor: 刁薛兰

Chief of QC: 于铁梅