



## $\alpha$ -Arbutin

**Date of manufacture:** 13.03.2014

**Expiration Date:** 12.03.2016

**Batch-No.** 20140304

Test	Specification	Results
Appearance	White needle crystal or crystalline powder	conform
Assay	$\geq 99.5 \%$	99.9
Loss on drying	$\leq 5 \%$	0.12 %
Residue on Ignition	$\leq 0.5 \%$	0.05 %
Specific Rotation [ $\alpha$ ] D <sup>20</sup>	+175.0 ° - + 185.0 °	+ 177.6 °
Clarity of water solution (1%)	Transparent colories none suspended	conform
Ph	5.0 ~ 7.0	5.85
Melting point	202.0° - 210° C	205.3°C

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Kosmetik-Rohstoffe von Experten



## Product Specification $\alpha$ -Arbutin

Test	Specification	Batch No. 20140304
Hydroquinone	Negative	Negative
Lead	$\leq 10$ mg/kg	conforms
Arsenic	$\leq 2$ mg/kg	conforms
Mercury	$\leq 1$ mg/kg	conforms
Methanol	$\leq 2000$ mg/kg	$< 1000$ mg /kg
Aerobic Bacterial	$\leq 1000$ cfu/g	conforms
Molds and Yeast	$\leq 100$ cfu/g	conforms
Fecal Coliforms	Negative	negative
Pseudomonas Aeruginosa	Negative	negative
Staphylococcus aureus	Negative	negative