



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-296680A
Lot Number: SAMPLE
Product Name: Umckalin
CAS Number: 43053-62-9
Molecular Formula: $C_{11}H_{10}O_5$
Molecular Weight: 222.19
Native Source: Pelargonium sidoides

Test	Specification	Result
Appearance	Pale yellow crystals	Complies
Assay	> 99.0% at 330 nm. Spectrum Max Plot (HPLC, 100%-Method)	99.69 %, 99.73 %
Purity (HPLC)	Sum of Impurities at 254 nm and Spectrum Max Plot: < 1.0 %	0.31 %, 0.27 %
Melting Point	142 - 150 °C (Water/Methanol)	145 - 146 °C (Water/Methanol)
Solubility	Soluble in methanol, low soluble in water	Complies
λ_{max}	207, 329 \pm 2 nm	206, 329 nm

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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