



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-281539  
Lot Number: SAMPLE  
Product Name: L-Arginine 7-amido-4- methylcoumarin dihydrochloride  
CAS Number: 113712-08-6  
Molecular Formula:  $C_{16}H_{21}N_5O_3 \cdot 2HCl$   
Molecular Weight: 404.29

Test	Specification	Result
Appearance	White to off-white crystalline powder	Slightly off-white crystalline powder
Identification (FTIR)	Consistent with reference	Complies
Identification (TLC)	Consistent with reference	Complies
Purity (Argentometric Titration)	99.0 - 101.0% (on dry matter)	99.8%
Solution (Color)	Colorless (2.5% in acetic acid (80%))	Complies
Solution (Turbidity)	$\leq 2.5$ NTU (2.5% in acetic acid (80%))	0.5 NTU
Specific Rotation ( $\alpha_{20/D}$ )	86.0 - 90.0 ( $c=1$ in 1 mol/l HCl)	89.0
Free Aminomethylcoumarin	$\leq 50$ mg/kg (50 mg in 3 ml of acetic acid (80%); toluene/ acetone 5: 1; UV 366 nm)	$< 25$ mg/kg
Water Content (KF)	$\leq 3.5\%$	1.2%

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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