



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-250217  
Lot Number: SAMPLE  
Product Name: L-Glutamic acid monopotassium salt monohydrate  
CAS Number: 6382-01-0  
Molecular Formula:  $C_5H_{10}KNO_5 \cdot H_2O$   
Molecular Weight: 203.23

Test	Specification	Result
Appearance (Color)	White/colorless	White
Appearance (Form)	Powder to fine crystals with lumps	Fine crystals with lumps
Identification ( $^1H$ -NMR)	Consistent with structure	Complies
Purity (Titration)	99.0% - 101.0%	100.3%
Purity (TLC)	$\geq 99.5\%$	100.0%
Trace metal analysis	Consistent with requirements	Complies
Specific Rotation ( $\alpha_{20/D}$ )	$23.0 \pm 1.0^\circ$ (C = 5 in 5M HCl)	$22.9^\circ$ (C = 5 in 5M HCl)
Loss on Drying	$\leq 10\%$	9.0%
Ammonium	$\leq 200$ mg/kg	< 50 mg/kg
Cadmium	$\leq 5$ mg/kg	< 5 mg/kg
Chloride	$\leq 100$ mg/kg	< 100 mg/kg
Chromium	$\leq 5$ mg/kg	< 5 mg/kg
Cobalt	$\leq 5$ mg/kg	< 5 mg/kg
Copper	$\leq 5$ mg/kg	< 5 mg/kg
Iron (ICP)	$\leq 5$ mg/kg	< 5 mg/kg
Lead (ICP)	$\leq 5$ mg/kg	< 5 mg/kg
Magnesium	$\leq 5$ mg/kg	< 5 mg/kg
Manganese	$\leq 5$ mg/kg	< 5 mg/kg
Nickel	$\leq 5$ mg/kg	< 5 mg/kg

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.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 [www.scbt.com](http://www.scbt.com)

Sodium (ICP)	$\leq 500$ mg/kg	< 500 mg/kg
Sulfur Compounds	$\leq 100$ mg/kg	< 50 mg/kg
Zinc	$\leq 5$ mg/kg	< 5 mg/kg

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.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 [www.scbt.com](http://www.scbt.com)